

KAISERLICHE UNIVERSITÄTS-STERNWARTE

WARSCHAU.

STERNCATALOG

DER

K. UNIVERSITÄTS-STERNWARTE

WARSCHAU.

ZONE —2° bis —7°.

WARSCHAU.
BUCHDRUCKEREI DES WARSCHAUER SCHULBEZIRKS, KRAKAUER VORSTADT 3.
1904.

CATALOG VON 6041 STERNEN

ZWISCHEN 1°50′ UND 7°10′ SÜDLICHER DECLINATION

FÜR DAS AEQUINOCTIUM

1880.0

HERGELEITET AUS DEN BEOBACHTUNGEN AM REICHENBACH

& ERTEL'SCHEN MERIDIANKREISE DER

K. UNIVERSITÄTS- STERNWARTE ZU WARSCHAU

Warsaw, Russia

Universitet - Observatoriya

von

DR. J. KOWALCZYK

Observator der Sternwarte.

HERAUSGEGEBEN VON DER STERNWARTE.

WARSCHAU.

1904.

15

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EINLEITUNG.

Im ersten Theile der *„Observations faites au cercle méridien à l'Observatoire astronomique de Varsovie, 1892“* wurden in der Einleitung nähere Mittheilungen über das benutzte Instrument, sowie über das Beobachtungs- und Reductionsverfahren angeführt. Es sind aber noch einige Bemerkungen hinzuzufügen, welche als Ergänzung dazu dienen können und sich auf den Catalog beziehen.

Die Arbeitsliste der Zonensterne wurde nach den Berliner akademischen Sternkarten und Verzeichnissen zusammengestellt und enthielt in dem Zwischenraum von —1°50′ und —7°10′ der Declination eine bedeutende Anzahl von Sternen bis zur 9-ten Grösse; davon wurde kaum der dritte Theil beobachtet. Die Liste wurde für jede *AR.* Stunde in kleine Zonen von 20 zu 20 Minuten der Declination getheilt, was bei einem Gesichtsfelde von 15′ hinreichte, ohne zu grosse Drehungen des Fernrohres nach sich zu ziehen. Dieses Verfahren wurde nur dann etwas abgeändert, wenn es nöthig erschien die bloss in *AR.* beobachteten Sterne, welche ober—oder unterhalb des horizontalen Fadens das Gesichtsfeld passirten, bei wiederholter Beobachtung auf die Declination einzustellen.

Der Reichenbach-Ertel'sche Kreis der Warschauer Sternwarte gehört jetzt schon zu äusserst primitiven Instrumenten; demungeachtet ist er noch bei vorsichtiger Handhabung ziemlich brauchbar. Die Untersuchung der Theilungsfehler ist ausgeblieben und sie wäre beim gegenwärtigen Zustand des Instrumentes nicht leicht ausführbar, weil die Theilungsstriche von 3′ zu 3′ nicht überall scharf sind. Jeder der 4 Nonien gestattet 2″ abzulesen; dadurch konnte offenbar keine grosse Genauigkeit erreicht werden.

In optischer Hinsicht ist das Instrument für Sterne von 5-ter bis 8-ter Grösse bei mittelmässiger Beleuchtung ganz zufriedenstellend; die Sterne 1-ter bis 4-ter Grösse zeigen keine regelmässige Gestalt und die Sterne 9-ter Grösse können nur bei einem ganz klaren Himmel beobachtet werden.

Die Beobachtungsreihe umfasst den Zeitraum von Juni 1876 bis November 1896, jedoch nicht ohne längere und kürzere Unterbrechungen, welche meistentheils durch architektonische und instrumentale Ursachen veranlasst waren.

Zur Zeit- und Aequator-Bestimmung wurden die Fundamentalsterne der *„Scheinbaren Oerter von 529 Sternen“* bis 1883 Jan. 1 und hierauf die des *„Berliner astronomischen Jahrbuches“* benutzt.

Die Uhr *Gugenmuss* № 4 befand sich in der Nähe des Meridiankreises; sie wurde mit der Normaluhr *Hohwü* № 26 verglichen und ihre Correction häufig bestimmt, weil der tägliche Gang nicht immer zuverlässig war. Erst im Jahre 1887 trat an die Stelle der genannten Uhr eine Löbner'sche mit Halbsecundenschlägen ein und diese wurde mit der Normaluhr elektrisch verbunden. Nach einiger Zeit functionirte aber die Löbner'sche Uhr nicht gut und musste beseitigt werden; unterdessen wurde die Uhr *Gugenmuss* № 4 elektrisch eingerichtet und mit *Hohwü* № 26 in Verbindung gesetzt. Der Gang der Hohwü'schen Uhr bewies sich sehr regelmässig.

Das Mikrometer hatte neun verticale Fäden und bis 1882 nur einen einfachen horizontalen Faden. Die Einstellung auf die Declination wurde durch Bisection der Sterne bewirkt. Nach der Beseitigung des alten Mikrometers wurde im Jahre 1882 ein neues eingesetzt, welches dem Zwecke besser entsprach und zwei horizontale Fäden in der Distanz von 10″ hatte. Dadurch wurde es möglich die Sterne 9-ter Grösse zwischen den Fäden zu sehen, während sie durch den einfachen Faden beinahe vollständig bedeckt erschienen. Zur Beleuchtung des Gesichtsfeldes diente anfangs eine Oellampe, später eine Petroleumlampe, welche an den dicken Marmorpfeilern in einer solchen Entfernung hieng, dass keine Erwärmung des Instrumentes zu befürchten war.

Im Sommer 1880 wurden das Objectiv und das Ocular gegenseitig verstellt.

Da die Lage der Sternwarte so ungünstig ist, dass es unmöglich ist entweder Collimatoren, oder ein Meridianzeichen irgendwo aufzustellen und von der Anwendung eines Quecksilberhorizonts keine Rede sein kann, so musste man sich bei der Bestimmung der Collimation auf die Umlegung des Instrumentes beschränken. Diese Operation wurde in der Regel am Tage durch die Beobachtungen von α *Ursae min.* bewerkstelligt und das gewonnene Resultat in Verbindung mit der täglichen Aberration diente bis zur nächsten Umlegung als eine constante Grösse.

Die Horizontalität der Drehungsaxe wurde jeden Beobachtungsabend mit Hülfe einer Hängelibelle sowohl beim Objectiv Süd, als Objectiv Nord geprüft. Ursprünglich diente dazu eine Libelle, deren Arme nicht auf die Contactfläche der Axe und der Zapfenlager zu liegen kamen; desswegen wurde eine andere, dem Zwecke mehr entsprechende angeschafft und benutzt.

Die Durchgänge der Anhaltsterne wurden zur Bestimmung der Uhrcorrection und des Aequatorpunctes verwendet. Zum ersteren Zwecke wurden mehrere Sterne von südlicher Zenithdistanz und ein Polstern beobachtet. Unter Anwendung der Bessel'schen Reductionsformel und der ermittelten Instrumental-Fehler wurden die Correctionen berechnet und zu einem Mittel vereinigt. Das Mittel aus den Durchgangszeiten (die des Polsterns ausgenommen) wurde als Epoche des Abends angesehen.

Zur Bestimmung des Aequatorpunctes wurden alle vier Nonien und die beiden Enden der festen Libelle bei einzelnen Anhaltsternen abgelesen. Der Stern wurde auf den Mittelfaden eingestellt. Das Mittel aus allen vier Nonien unter Zuziehung der Libellen-Correction und der Refraction ergab die Lage des gesuchten Punctes, freilich mit möglichen Fehlern der Einstellung, der Ablesung, der Kreistheilung und der Declination des Sternes behaftet. Man war immer bestrebt die der beobachteten Zone am nächsten liegenden Sterne zum genannten Zwecke zu beobachten. Die Zahl der bezüglichen Beobachtungen war verschieden, aber meistentheils grösser, als 2. Das Mittel aus den erhaltenen Resultaten, welche überhaupt unter einander genügend übereinstimmten, wurde als Aequatorpunct des Abends betrachtet.

Die Refraction wurde nach „*Tabulae refractionum in usum speculae Pulcovensis congestae*" berechnet, wobei aber zum leichteren Gebrauch die Grössen, welche vom Luftdruck und der äusseren Temperatur abhängig sind, besondere Hülfstafeln erhielten und nach Argumenten von *0.1* des Millimeters und des Celsius Grades fortschritten. Bei jeder Ablesung der meteorologischen Instrumente wurde die Uhrzeit notirt und ihr entsprechend die Correctionen der mittleren Refraction berechnet. Diese Correctionen wurden dann für die Zwischenzeiten linearisch interpolirt.

Alle Beobachtungen wurden von freier Hand mit Bleifeder in die Hefte eingetragen. Für Anhalt- und Zonensterne dienten besondere Hefte, in welchen dann die Reductionen auf den Mittelfaden mit Tinte ausgeführt und das Mittel der Nonien angegeben wurde.

Da bei Zonensternen meistentheils nicht alle 4 Nonien abgelesen wurden, so musste man eine Reduction ermitteln, welche wenigstens annähernd den 4 Nonien entsprechen könnte. Bei der Kreislage West wurden die nächsten Nordnonien (der obere und untere), beim Kreise Ost die beiden untersten (Süd und Nord) abgelesen und die Enden der Alhidadenlibelle angemerkt. Die besagte Reduction wurde aus der Differenz zwischen dem Mittel aus allen 4 Nonien und dem Mittel aus den bei Zonensternen abgelesenen Nonien abgeleitet. Die einzelnen Differenzen, zu einem Mittel vereinigt, wurden als Reduction des Abends angenommen.

Bei Durchgangszeiten der Sterne wurden Minuten und Zehner von Secunden beim letzten Faden notirt. Wenn mehrere Sterne das Gesichtsfeld passirten, so wurde einer von ihnen zwischen die Horizontalfäden eingestellt und die übrigen ober-oder unterhalb derselben nur in *AR.* beobachtet. In diesem letzten Falle war aber bei der geringen Entfernung der äusseren Fäden von dem mittleren, im Aequator etwas über 22ˢ, keine bedeutende Zeitdifferenz zu befürchten, eher möchte sie von der raschen Aufeinanderfolge der Sterne herrühren.

Ueber die Reduction der Zonensterne auf den Anfang des Beobachtungsjahres und auf 1880.0 ist im ersten Theile der „*Observations faites au cercle méridien à l'Observatoire de Varsovie*, pg. VII" berichtet worden.

Die Grössenschätzung der Zonensterne wurde gleich beim Durchgang nach Augenmass, ohne Rücksicht auf die Grössenangabe der Arbeitsliste in ganzen Zahlen angesetzt;

Bei der Angabe von zwei Zahlen sind Grössengrenzen zu verstehen. Im Zettelcatalog sind einzelne Grössenschätzungen angeführt, aber im definitiven Cataloge wurde nicht ihr Mittel, sondern die überwiegende Schätzung angegeben.

Die Beobachtungen, bei welchen nur die *AR.* und kein Mal die Declination bestimmt wurde, sind unberücksichtigt gelassen. Eine bedeutende Anzahl von Zonensternen, ungefähr ein Fünftel der Gesammtzahl, wurde nur einmal in beiden Coordinaten beobachtet. Davon sind die meisten in den Catalog aufgenommen worden, weil ihre Positionen durch andere Cataloge sich bestätigen liessen. Wo keine derartige Bestätigung zu finden war, oder der Stern nur an einem einzigen Faden und einem Nonius beobachtet wurde, so wurde er ausgeschlossen und in den Catalog nicht aufgenommen. Am Schlusse des Catalogs sind solche Fälle besonders zusammengestellt.

Zur leichteren Uebersicht der Anzahl von Beobachtungen eines einzelnen Sternes finden sich besondere Spalten im Cataloge vor; ausserdem wurde ein Register der Einzelbeobachtungen hinzugesetzt.

Bei der Bildung der Endresultate von *AR.* und *Decl.* wurde den Einzelbeobachtungen ein der Fäden- und Nonienanzahl proportionales Gewicht beigelegt. Die *AR.* Beobachtungen erhielten das Gewicht *1*, wenn der Durchgang an 1, 2, 3, das Gewicht 2, wenn er an 4, 5, 6, und das Gewicht *3*, wenn er an 7, 8, 9 Fäden notirt wurde. Das Gewicht der Declinationen wurde nach der Nonienanzahl bemessen. Die Epochen sind Mittel aus den Beobachtungsjahren.

Zur Berechnung der jährlichen Praecession für 1880.0 wurden die Grössen m und n den Pulkowaer „*Tabulae quantitatum Besselianarum*“ entnommen. Für $\frac{n}{15} \sin\alpha$ und $n\cos\alpha$ wurden besondere Tafeln in Intervallen von einer Zeitminute berechnet, nach denen das Resultat unter Berücksichtigung der Declination und der Zeitsecunden leicht zu finden war.

Die *Var. saecularis* wurde wie üblich nach folgenden Formeln berechnet:

$$Var.\ saec.\ AR. = A + (B + C \tang\delta)\tang\delta \quad \text{in Zeitsec.}$$

$$\text{,,}\quad\text{,,}\quad Decl. = A' + B' \tang\delta \quad \text{in Bogensec.}$$

wo

$$C = \frac{100}{15}\, n^2 \operatorname{Sin} 1''.\ \operatorname{Sin} 2\alpha$$

$$A = \frac{1}{2}\, C + \frac{100}{15}\, m'$$

$$B = \frac{100}{15}\,(m\, n \operatorname{Sin} 1''.\ \operatorname{Cos}\alpha + n' \operatorname{Sin}\alpha)$$

$$A' = 100\,(-m\, n \operatorname{Sin} 1''.\ \operatorname{Sin}\alpha + n' \operatorname{Cos}\alpha)$$

$$B' = 100\,(-n^2 \operatorname{Sin} 1''.\ \operatorname{Sin}^2\alpha)$$

und nach Struve und Peters für 1880.0

$$m = 46''.0851$$

$$n = 20.0538$$



$$m' = +0''.0002849$$
$$n' = -0.0000863$$

zu setzen ist.

Somit nehmen die obigen Coefficienten die Form an:

$$C = (8.11388) \operatorname{Sin} 2\alpha$$
$$A = 0^s.00190 + \tfrac{1}{2} C$$
$$B = (8.47532) \operatorname{Cos} (\alpha + 4^m 25^s)$$
$$A' = -(9.65141) \operatorname{Sin} (\alpha + 4^m 25^s)$$
$$B' = -(9.28997) \operatorname{Sin}^2 \alpha$$

wo die eingeklammerton Coefficienten Logarithmen sind.

Die Grössen C, B, A' und B' wurden für entsprechende Quadranten in Interwallen von 1^m tabulirt und schliesslich für jede Stunde in Tafeln von 1^m zu 1^m zusammengestellt. Die Rechnung wurde demnach unter Berücksichtigung von $tang\,\delta$ und der Zeitsecunden geführt.

Alle Beobachtungen wurden nach Aug- und Ohr-Methode ausschliesslich von mir ohne Gehülfen ausgeführt; dasselbe bezieht sich auch auf die Berechnungen, an denen nur gegen Ende die Herren W. Dziewulski und T. Banachiewicz einen kurzen Antheil nahmen und einige Hülfe bei Berechnung der Praecession und Var. saec. leisteten.

Auch die Correctur des Druckes besorgte ich selbst und die abgedruckten Bogen des Catalogs hat Herr T. Banachiewicz noch einmal mit der Handschrift verglichen. Die gefundenen Unterschiede sind in den Berichtigungen angezeigt.

Bei der Vergleichung des Catalogs mit anderen Catalogen wurde die *Var. saec.* ausser Acht gelassen und die Praecession der Cataloge zur Reduction benutzt. Wenn die Eigenbewegung in den Catalogen angegeben wurde, so wurde sie nur angemerkt, aber bei der Vergleichung nicht in Rechnung gezogen.

Dr. J. Kowalczyk.

WARSCHAU.
K. Sternwarte.
October. 1904.

№	Gr.	A. R. 1880.0 (h m s)	Zahl der Beob.	Praec. (s)	Var. saec. (s)	Decl. 1880.0 (° ' ")	Zahl der Beob.	Praec. (")	Var. saec. (")	Ep. 1800 +	B. D. (°)	
1	9	0 0 2.72	3	+ 3.0723	+ 0.0004	— 2 49 23.9	3	+ 20.054	— 0.009	89.1	— 2	6097
2	8.9	0 4.54	8	3.0723	+ 0.0006	— 2 33 15.0	3	20.054	0.009	88.7; 91.5	— 2	6098
3	8.9	0 10.11	3	3.0723	+ 0.0009	— 1 54 18.6	3	20.054	0.009	84.5	— 2	6099
4	9	0 21.49	1	3.0722	— 0.0004	— 4 30 54.2	1	20.054	0.009	86.8	— 4	6022
5	8	0 46.32	2	3.0720	— 0.0003	— 4 17 12.0	2	20.054	0.010	81.3	— 4	6025
6	9	0 0 47.21	1	+ 3.0720	— 0.0005	— 4 40 29.4	1	+ 20.054	— 0.010	86.8	— 4	6026
7	9.8	1 3.21	2	3.0720	+ 0.0002	— 3 22 58.2	2	20.053	0.011	84.3	— 3	5761
8	7.8	1 35.26	8	3.0718	+ 0.0003	— 3 13 1.8	6	20.053	0.012	83.8; 82.1	— 3	2
9	9.8	1 36.91	6	3.0720	+ 0.0010	— 2 1 1.4	6	20.053	0.012	85.9	— 2	3
10	8.9	1 43.18	2	3.0714	— 0.0009	— 5 31 19.8	2	20.053	0.012	85.8	— 5	3
11	7.6	0 2 3.46	8	+ 3.0717	+ 0.0004	— 3 6 56.0	4	+ 20.053	— 0.012	83.8; 85.3	— 3	3
12	9.8	2 7.19	5	3.0710	— 0.0011	— 6 0 46.3	5	20.053	0.013	85.2	— 6	3
13	7	2 34.19	4	3.0716	+ 0.0005	— 2 53 28.2	3	20.053	0.014	86.3	— 3	5
14	9	2 37.86	1	3.0705	— 0.0015	— 6 45 23.7	1	20.052	0.014	87.8	— 6	5
15	7.8	3 46.38	4	3.0711	+ 0.0004	— 3 13 44.8	3	20.051	0.016	81.8; 83.4	— 3	9
16	6.7	0 4 10.25	8	+ 3.0698	— 0.0010	— 5 54 55.7	7	+ 20.050	— 0.017	87.0; 87.8	— 6	11
17	9.8	4 16.75	4	3.0694	— 0.0014	— 6 42 30.6	4	20.050	0.017	91.1	— 6	12
18	8.9	4 48.14	6	3.0710	+ 0.0007	— 2 44 30.4	6	20.049	0.018	84.4	— 2	10
19	7.8	5 1.03	5	3.0703	+ 0.0001	— 3 59 22.0	4	20.049	0.018	83.0; 84.5	— 4	7
20	9	5 8.83	1	3.0707	+ 0.0006	— 3 8 43.8	1	20.049	0.019	86.8	— 3	12
21	8.9	0 5 22.21	6	+ 3.0714	+ 0.0013	— 1 47 27.7	5	+ 20.048	— 0.019	86.2; 85.4	— 1	7
22	8.7	5 25.62	4	3.0703	+ 0.0002	— 3 44 44.9	4	20.048	0.019	84.5	— 3	14
23	8	5 27.27	3	3.0691	— 0.0008	— 5 44 8.7	3	20.048	0.019	83.4	— 5	17
24	9	5 38.95	1	3.0709	+ 0.0009	— 2 26 43.8	1	20.048	0.020	93.8	— 2	16
25	9	5 57.69	2	3.0695	— 0.0002	— 4 40 8.8	2	20.047	0.020	86.8	— 4	10
26	8	0 6 31.16	6	+ 3.0711	+ 0.0013	— 1 53 42.5	5	+ 20.046	— 0.021	83.2	— 2	19
27	8	6 46.79	6	3.0695	+ 0.0002	— 4 2 56.8	4	20.045	0.022	84.6	— 4	11
28	8.9	7 4.18	3	3.0681	— 0.0008	— 5 54 35.3	3	20.044	0.022	90.2	— 6	19
29	9	7 11.50	2	3.0674	— 0.0012	— 6 38 40.3	2	20.044	0.023	92.3	— 6	21
30	8.7	7 52.52	4	3.0687	0.0000	— 4 34 34.4	4	20.042	0.024	82.5	— 4	12
31	8	0 8 16.18	4	+ 3.0699	+ 0.0009	— 2 51 52.4	4	+ 20.041	— 0.025	88.3	— 3	18
32	8.9	8 44.94	3	3.0708	+ 0.0015	— 1 42 4.8	3	20.039	0.026	88.5	— 1	15
33	7.8	8 47.90	7	3.0690	+ 0.0005	— 3 41 38.4	7	20.039	0.026	88.3	— 3	20
34	8	9 8.78	6	3.0660	— 0.0011	— 6 48 14.4	6	20.038	0.026	87.2	— 6	29
35	8	9 43.69	2	3.0661	— 0.0008	— 6 16 8.7	2	20.036	0.028	89.3	— 6	30
36	8.9	0 10 27.47	3	+ 3.0700	+ 0.0013	— 2 11 23.7	3	+ 20.033	— 0.029	89.8	— 2	26
37	9	10 40.17	1	3.0692	+ 0.0010	— 2 54 57 2	1	20.032	0.030	91.8	— 3	29
38	9	10 53.30	1	3.0692	+ 0.0011	— 2 47 1.7	1	20.031	0.030	91.8	— 2	28
39	9.8	10 55.75	1	3.0704	+ 0.0016	— 1 44 6.9	1	20.031	0.030	90.0	— 1	20
40	8	10 57.08	1	3.0698	+ 0.0010	— 2 19 13.0	1	20.031	0.080	86.8	— 2	29
41	7.8	0 11 39.96	7	+ 3.0693	+ 0.0012	— 2 31 46.9	6	+ 20.028	— 0.031	87.3	— 2	31
42	8.9	11 40.48	5	3.0642	— 0.0010	— 6 49 16.1	5	20.028	0.031	90.0	— 6	37
43	9	11 53.88	1	3.0674	+ 0.0005	— 4 1 57.5	1	20.027	0.032	92.8	— 4	25
44	8	12 9.89	3	3.0690	+ 0.0012	— 2 40 52.2	3	20.026	0.032	88.1	— 2	34
45	7	12 42.77	3	3.0679	+ 0.0010	— 3 8 48.0	3	20.018	0.035	85.8	— 3	36
46	9.8	0 13 44.13	2	+ 3.0638	— 0.0005	— 6 7 1.7	2	+ 20.018	— 0.035	89.3	— 6	46
47	9.8	13 52.26	1	3.0683	+ 0.0012	— 2 50 9.7	1	20.017	0.036	91.8	— 2	39
48	8.7	14 55.57	6	3.0669	+ 0.0009	— 3 34 34.3	6	20.011	0.038	89.6	— 3	38
49	8.7	15 5.00	5	3.0662	+ 0.0007	— 3 58 52.8	1	20.010	0.038	89.6; 78.8	— 4	31
50	8	15 19.72	1	3.0656	+ 0.0005	— 4 18 37.3	1	20.009	0.038	89 8	— 4	32

№	Gr.	*A. R.* 1880.0			Zahl der Beob.	Praec.	Var. saec.	*Decl.* 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
51	9.8	0	15	30.72	4	+3.0660	+0.0007	−4	1	3.3	3	+20.008	−0.039	88.6; 91.8	−4	34
52	8.7		16	6.83	3	3.0627	−0.0002	−5	51	28.1	3	20.004	0.040	86.5	−5	49
53	8.9		16	53.22	5	3.0600	−0.0008	−7	7	41.3	4	19.999	0.042	87.8; 85.5	−7	48
54	8.9		16	53.45	6	3.0602	−0.0008	−7	2	11.7	6	19.999	0.042	89.8	−7	47
55	8		17	31.46	5	3.0657	+0.0010	−3	43	9.0	5	19.995	0.043	86.8	−3	48
56	8	0	17	51.90	6	+3.0648	+0.0008	−4	8	28.1	6	+19.993	−0.043	88.5	−4	40
57	9.8		18	6.98	1	3.0628	+0.0003	−5	10	6.9	1	19.991	0.044	83.8	−5	56
58	8.9		18	10.04	5	3.0688	+0.0019	−1	54	20.5	5	19.991	0.044	88.8	−2	49
59	7.6		18	21.78	7	3.0669	+0.0014	−2	52	58.6	7	19.990	0.044	86.8	−3	49
60	8.9		18	25.42	1	3.0624	+0.0002	−5	18	51.9	1	19.989	0.044	78.8	−5	58
61	9	0	18	32.58	1	+3.0646	+0.0008	−4	6	59.1	1	+19.988	−0.045	92.8	−4	41
62	9.8		18	51.85	2	3.0624	+0.0003	−5	10	54.6	1	19.986	0.045	89.8; 95.8	−5	60
63	9.8		19	5.93	1	3.0675	+0.0017	−2	29	53.9	1	19.984	0.046	93.9	−2	53
64	9		19	49.01	3	3.0587	−0.0004	−6	48	58.8	3	19.979	0.047	90.8	−6	67
65	8		20	44.46	2	3.0690	+0.0022	−1	35	34.2	2	19.972	0.049	83.9	−1	46
66	9	0	20	44.90	2	+3.0592	−0.0001	−6	11	20.0	2	+19.972	−0.049	89.3	−6	72
67	7		20	58.10	3	3.0602	+0.0002	−5	40	3.5	3	19.970	0.049	85.5	−5	64
68	9.8		21	47.06	4	3.0671	+0.0019	−2	20	48.4	4	19.963	0.051	89.1	−2	57
69	8		23	10.24	4	3.0568	−0.0002	−6	34	1.7	4	19.951	0.054	85.8	−6	79
70	8.9		23	12.20	4	3.0574	0.0000	−6	17	50.9	4	19.951	0.054	89.6	−6	80
71	8.9	0	23	14.75	3	+3.0553	−0.0005	−7	10	43.4	3	+19.951	−0.054	88.8	−7	63
72	7.8		23	21.57	9	3.0601	+0.0011	−4	8	0.3	9	19.950	0.054	89.3	−4	51
73	8		23	30.61	11	3.0640	+0.0014	−3	30	12.2	11	19.948	0.054	87.6	−3	57
74	8.9		23	31.00	2	3.0612	+0.0008	−4	40	40.2	2	19.948	0.054	89.8	−4	52
75	7.8		23	45.89	8	3.0680	+0.0023	−1	46	44.8	7	19.946	0.055	84.6; 85.6	−1	52
76	8.9	0	23	54.24	3	+3.0558	−0.0002	−6	46	2.4	3	+19.945	−0.055	88.8	−6	83
77	8.9		25	10.86	2	3.0605	+0.0009	−4	36	51.0	2	19.933	0.058	88.7	−4	55
78	8		25	32.59	7	3.0660	+0.0021	−2	27	22.1	7	19.929	0.058	85.7	−2	69
79	8.9		25	50.42	3	3.0539	−0.0002	−6	58	48.0	3	19.926	0.059	87.2	−7	73
80	9.8		25	59.14	3	3.0569	+0.0004	−5	50	27.9	3	19.925	0.059	85.8	−5	77
81	9.8	0	26	28.64	1	+3.0538	−0.0001	−6	52	10.6	1	+19.920	−0.060	96.8	−7	75
82	8		27	4.26	4	3.0599	+0.0011	−4	30	38.0	4	19.914	0.061	87.1	−4	59
83	9.8?		27	17.72	1	3.0589	+0.0010	−4	42	20.5	1	19.912	0.062	95.8	−4	60
84	9.8		27	30.68	4	3.0628	+0.0017	−3	23	55.5	4	19.910	0.062	91.8	−3	64
85	9.8		27	51.94	2	3.0527	−0.0001	−6	53	36.0	2	19.906	0.062	93.3	−7	79
86	9.8	0	28	7.87	2	+3.0636	+0.0019	−3	3	21.2	2	+19.903	−0.063	86.8	−3	67
87	8.9		28	9.38	1	3.0540	+0.0002	−6	24	16.8	1	19.903	0.063	95.8	−6	89
88	8		28	21.57	3	3.0516	−0.0002	−7	9	46.6	3	19.900	0.064	84.5	−7	82
89	8.7		28	22.20	5	3.0573	+0.0008	−5	12	31.6	5	19.900	0.064	83.0	−5	83
90	9		28	34.55	1	3.0680	+0.0018	−3	13	26.1	1	19.898	0.064	86.8	−3	70
91	9.8	0	28	47.82	6	+3.0666	+0.0025	−1	58	16.2	6	+19.896	−0.065	87.9	−2	75
92	6		29	4.47	5	3.0598	+0.0013	−4	15	14.7	5	19.893	0.065	87.4	−4	62
93	9.8		29	25.42	4	3.0519	+0.0001	−6	48	9.5	4	19.889	0.066	90.8	−6	92
94	7		29	53.71	4	3.0534	+0.0004	−6	13	41.5	4	19.883	0.066	85.1	−6	96
95	8.9		30	49.59	3	3.0596	+0.0016	−4	3	40.2	3	19.873	0.068	82.4	−4	64
96	8.9	0	30	51.36	7	+3.0510	+0.0002	−6	46	3.8	6	+19.872	−0.068	87.3; 86.4	−6	101
97	9.8		32	5.03	2	3.0646	+0.0025	−2	22	16.6	2	19.858	0.071	90.3	−2	81
98	8.9		33	10.94	9	3.0601	+0.0024	−2	37	37.5	9	19.844	0.073	87.5	−2	84
99	8		33	30.81	7	3.0596	+0.0014	−3	44	28.6	7	19.840	0.074	86.1	−3	79
100	8.9		34	24.87	3	3.0639	+0.0026	−2	25	41.0	3	19.828	0.075	83.5	−2	87

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
101	8.9	0 34 31.88	7	+ 3.0548	+ 0.0013	− 5 0 17.7	5	+ 19.827	− 0.075	90.8; 91.6	− 5 100
102	6.7	34 35.84	9	3.0547	0.0013	− 5 0 39.5	4	19.826	0.076	87.7; 82.8	− 5 101
103	9.8	34 50.26	2	3.0538	0.0012	− 5 13 32.9	2	19.823	0.076	80.9	− 5 105
104	8.9	35 2.75	3	3.0646	0.0028	− 2 10 35.8	3	19.820	0.076	83.9	− 2 91
105	8.9	35 24.58	4	3.0653	0.0029	− 1 57 27.6	4	19.815	0.077	84.3	− 2 93
106	9.8	0 35 43.14	1	+ 3.0480	+ 0.0005	− 6 41 6.7	1	+ 19.811	− 0.078	95.8	− 6 115
107	9.8	35 47.46	1	3.0555	0.0016	− 4 37 28.3	1	19.810	0.078	96.8	− 4 83
108	8.9	36 1.66	5	3.0588	0.0020	− 3 42 39.8	5	19.806	0.078	88.4	− 3 86
109	8.9	36 5.55	8	3.0470	0.0004	− 6 54 20.6	6	19.806	0.078	86.5	− 7 106
110	9	36 8.88	1	3.0492	0.0007	− 6 17 22.2	1	19.805	0.078	95.8	− 6 116
111	9	0 36 30.80	5	+ 3.0617	+ 0.0016	− 2 52 18.8	4	+ 19.800	− 0.079	88.8	− 3 87
112	8	36 54.60	5	3.0554	0.0017	− 4 30 53.0	4	19.794	0.080	87.4; 85.0	− 4 85
113	8	37 13.06	4	3.0458	0.0004	− 6 59 40.8	4	19.790	0.080	84.6	− 7 109
114	9.8	37 42.99	2	3.0580	0.0021	− 3 44 18.1	2	19.783	0.082	80.3	− 3 91
115	9.8	38 13.22	2	3.0527	0.0015	− 5 3 21.9	2	19.776	0.082	92.8	− 5 116
116	9.8	0 38 24.48	4	+ 3.0478	+ 0.0009	− 6 17 2.2	4	+ 19.773	− 0.083	89.3	− 6 124
117	6.7	39 17.52	3	3.0512	0.0014	− 5 17 13.7	3	19.760	0.084	81.9	− 5 120
118	9.8	39 36.47	7	3.0650	0.0032	− 1 50 32.6	4	19.755	0.085	86.8; 87.8	− 1 94
119	9.8	39 36.94	1	3.0549	0.0019	− 4 20 45.1	1	19.755	0.085	82.8	− 4 92
120	8.9	40 22.06	2	3.0422	0.0004	− 7 20 27.9	2	19.743	0.086	85.9	− 7 118
121	9	0 40 23.08	3	+ 3.0635	+ 0.0030	− 2 9 51.5	3	+ 19.743	− 0.087	86.9	− 2 104
122	9	40 30.31	4	3.0610	0.0027	− 2 46 37.4	4	19.741	0.087	89.3	− 2 105
123	8	40 34.15	5	3.0514	0.0016	− 5 4 30.5	5	19.740	0.087	86.2	− 5 124
124	8.9	40 52.80	9	3.0644	0.0032	− 1 54 25.3	4	19.736	0.088	86.4; 82.3	− 2 106
125	9.8	41 3.51	4	3.0648	0.0033	− 1 48 44.3	2	19.733	0.088	91.4; 88.8	− 1 99
126	8	0 41 29.45	4	+ 3.0698	+ 0.0027	− 2 58 38.1	4	+ 19.726	− 0.089	81.8	− 3 99
127	9.8	41 46.58	3	3.0628	0.0031	− 2 15 31.8	2	19.722	0.089	83.6; 80.8	− 2 109
128	8.9	41 47.15	6	3.0441	0.0009	− 6 38 50.9	6	19.721	0.089	86.5	− 6 139
129	8.9	41 57.19	5	3.0538	0.0020	− 4 22 3.6	5	19.719	0.090	87.4	− 4 95
130	9.8	43 9.64	1	3.0424	0.0009	− 6 49 26.3	1	19.699	0.092	95.8	− 6 141
131	9	0 43 10.03	1	+ 3.0624	+ 0.0031	− 2 16 51.7	1	+ 19.699	− 0.092	86.8	− 2 111
132	9	43 30.46	2	3.0561	0.0024	− 3 41 2.2	2	19.694	0.093	91.8	− 3 105
133	9	44 9.93	1	3.0585	0.0028	− 3 6 10.9	1	19.683	0.094	96.9	− 3 107
134	8.9	44 17.24	3	3.0468	0.0014	− 5 46 54.7	1	19.680	0.094	85.8; 78.8	− 5 134
135	8	44 26.16	2	3.0454	0.0014	− 5 58 7.5	2	19.678	0.094	89.3	− 6 148
136	9	0 44 44.06	2	+ 3.0588	+ 0.0029	− 3 0 4.4	2	+ 19.673	− 0.095	86.8	− 3 109
137	7	45 3.14	3	3.0463	0.0015	− 5 41 19.4	2	19.668	0.095	85.8; 89.3	− 5 138
138	8.9	45 6.44	3	3.0456	0.0015	− 5 50 6.9	2	19.667	0.095	80.6; 81.4	− 5 139
139	8	45 25.79	5	3.0549	0.0025	− 3 47 46.5	5	19.661	0.096	85.3	− 3 113
140	8.9	45 39.29	12	3.0410	0.0010	− 6 45 11.6	7	19.657	0.096	87.9; 86.0	− 6 151
141	9	0 45 41.59	1	+ 3.0434	+ 0.0013	− 6 13 52.1	1	+ 19.656	− 0.096	95.8	− 6 152
142	8.9	45 42.71	5	3.0504	0.0021	− 4 44 19.0	5	19.656	0.097	91.0	− 4 105
143	8.9	46 6.40	6	3.0412	0.0011	− 6 39 15.4	5	19.649	0.097	90.7	− 6 153
144	5	46 52.58	10	3.0638	0.0036	− 1 47 46.3	10	19.636	0.099	85.4	− 1 114
145	9	47 1.00	1	3.0424	0.0014	− 6 16 16.5	1	19.633	0.099	88.9	− 6 156
146	7.8	0 47 34.77	5	+ 3.0474	+ 0.0019	− 5 10 39.9	5	+ 19.623	− 0.100	83.4	− 5 147
147	9.8	47 45.12	1	3.0403	0.0012	− 6 37 8.2	1	19.620	0.100	95.8	− 6 159
148	8.9	49 35.82	5	3.0490	0.0023	− 4 38 39.8	6	19.586	0.104	86.8	− 4 112
149	8	50 40.20	8	3.0550	0.0030	− 3 22 42.4	3	19.566	0.106	80.8	− 3 132
150	9.8	51 14.34	7	3.0372	0.0014	− 6 45 35.5	7	19.555	0.106	90.8	− 6 170

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
151	9	0 51 19.88	1	+ 3.0465	+ 0.0024	− 4 58 17.4	1	+ 19.553	− 0.107	92.9	− 5 159
152	9	51 38.96	2	3.0585	0.0034	− 2 39 20.4	2	19.546	0.108	89.4	− 2 130
153	7.8	51 42.60	5	3.0597	0.0035	− 2 24 54.7	3	19.546	0.108	80.8; 82.9	− 2 131
154	8.9	52 5.52	1	3.0554	0.0031	− 3 13 25.2	1	19.538	0.109	85.8	− 3 135
155	8	52 19.81	2	3.0601	0.0036	− 2 18 31.3	1	19.533	0.109	80.3; 77.8	− 2 132
156	7	0 52 41.06	4	+ 3.0375	+ 0.0015	− 6 31 43.6	4	+ 19.516	− 0.109	81.6	− 6 176
157	8.9	53 26.54	1	3.0624	0.0039	− 1 50 31.2	1	19.511	0.111	80.8	− 1 125
158	9.8	53 27.91	4	3.0412	0.0020	− 5 44 54.3	4	19.511	0.111	82.2	− 5 163
159	8.9	53 35.50	2	3.0447	0.0023	− 5 6 19.5	2	19.508	0.111	81.3	− 5 165
160	8.9	53 36.56	3	3.0454	0.0024	− 4 58 8.4	3	19.508	0.111	81.4	− 5 166
161	8.9	0 53 48.46	4	+ 3.0406	+ 0.0020	− 5 49 53.6	2	+ 19.504	− 0.112	82.4; 81.9	− 5 168
162	8	53 56.03	5	3.0578	0.0035	− 2 39 54.8	5	19.501	0.112	84.3	− 2 136
163	7.8	54 32.94	4	3.0597	0.0037	− 2 18 18.0	4	19.488	0.113	81.1	− 2 140
164	8	54 56.36	3	3.0429	0.0023	− 5 17 36.4	3	19.480	0.114	81.8	− 5 171
165	9	55 17.79	1	3.0390	0.0020	− 5 57 58.2	1	19.473	0.114	91.8	− 6 188
166	9	0 55 23.35	1	+ 3.0439	+ 0.0024	− 5 4 54.1	1	+ 19.471	− 0.115	92.9	− 5 173
167	8.9	55 37.22	2	3.0350	0.0017	− 6 37 28.6	2	19.466	0.115	91.8	− 6 190
168	9	56 18.38	1	3.0453	0.0036	− 2 42 17.3	1	19.452	0.117	96.8	− 2 148
169	6	56 58.38	6	3.0408	0.0023	− 5 28 44.2	6	19.437	0.118	81.9	− 5 177
170	9.8	58 19.75	4	3.0373	0.0021	− 5 56 55.5	4	19.408	0.120	86.6	− 6 200
171	8.9	0 58 32.78	6	+ 3.0370	+ 0.0021	− 5 57 56.4	3	+ 19.403	− 0.120	87.8; 86.8	− 6 201
172	8.9	59 54.88	8	3.0424	0.0027	− 4 56 56.5	8	19.372	0.123	86.8	− 5 186
173	8.9	1 0 40.35	3	3.0399	0.0026	− 5 17 29.8	3	19.355	0.124	81.8	− 5 189
174	8	0 53.69	4	3.0382	0.0025	− 5 32 52.7	4	19.350	0.125	81.1	− 5 190
175	7.8	1 3.27	6	3.0578	0.0041	− 2 22 27.1	6	19.346	0.126	83.2	− 2 160
176	8	1 2 23.31	5	+ 3.0294	+ 0.0020	− 6 48 59.5	5	+ 19.315	− 0.127	85.1	− 6 212
177	8.9	2 25.22	3	3.0554	0.0039	− 2 42 4.9	3	19.315	0.128	87.5	− 2 167
178	8	2 48.44	4	3.0384	0.0027	− 5 21 43.7	4	19.306	0.128	84.9	− 5 195
179	8.9	3 12.62	2	3.0365	0.0026	− 5 37 11.0	2	19.296	0.129	84.9	− 5 198
180	8.9	3 35.50	3	3.0360	0.0026	− 5 40 8.7	1	19.287	0.130	82.8; 78.8	− 5 199
181	9	1 4 23.73	1	+ 3.0360	+ 0.0026	− 5 36 7.8	1	+ 19.267	− 0.131	83.0	− 5 200
182	8	4 26.79	4	3.0286	0.0021	− 6 43 30.3	4	19.266	0.131	85.4	− 6 220
183	7.8	4 38.59	8	3.0366	0.0027	− 5 28 55.4	8	19.261	0.131	86.5	− 5 202
184	8.9	5 5.43	8	3.0598	0.0044	− 1 54 45.8	8	19.250	0.133	85.7	− 2 175
185	9	5 30.61	3	3.0329	0.0025	− 5 58 43.1	3	19.240	0.133	87.2	− 6 226
186	7.6	1 5 37.31	5	+ 3.0533	+ 0.0040	− 2 53 21.5	5	+ 19.237	− 0.134	87.1	− 3 161
187	7.8	7 16.35	2	3.0508	0.0039	− 3 11 13.9	2	19.196	0.138	80.3	− 3 164
188	8.7	7 47.23	11	3.0349	0.0029	− 5 28 57.4	11	19.183	0.137	85.9	− 5 210
189	8.9	7 57.98	6	3.0536	0.0042	− 2 45 1.2	3	19.178	0.138	88.5; 83.5	− 2 184
190	9.8	8 7.74	6	3.0531	0.0042	− 2 48 59.4	4	19.174	0.139	89.4; 91.6	− 2 185
191	8.9	1 8 26.47	3	+ 3.0332	+ 0.0028	− 5 40 47.5	3	+ 19.166	− 0.138	84.2	− 5 215
192	9.8	10 5.32	1	3.0330	0.0029	− 5 35 4.5	1	19.123	0.141	87.9	− 5 221
193	8.9	10 25.72	3	3.0334	0.0030	− 5 29 47.4	2	19.114	0.142	86.5; 85.8	− 5 223
194	7.6	10 30.71	1	3.0502	0.0041	− 3 7 56.0	1	19.112	0.143	82.8	− 3 172
195	8.9	10 34.26	6	3.0589	0.0047	− 1 53 44.0	6	19.111	0.144	85.1	− 2 192
196	7	1 10 50.52	6	+ 3.0517	+ 0.0042	− 2 54 29.9	6	+ 19.103	− 0.144	83.9	− 3 174
197	8	11 18.18	2	3.0274	0.0027	− 6 15 54.2	2	19.091	0.143	83.4	− 6 244
198	9.8	11 34.43	3	3.0332	0.0031	− 5 26 33.9	3	19.084	0.144	89.6	− 5 225
199	9	11 39.66	1	3.0253	0.0026	− 6 31 18.9	1	19.081	0.144	87.8	− 6 246
200	9.8	13 22.58	1	3.0321	0.0032	− 5 27 59.2	1	19.035	0.147	92.0	− 5 237

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
201	9.8	1 13 27.81	7	+ 3.0315	+ 0.0031	− 5 32 28.6	6	+ 19.032	− 0.148	85.9	− 5 238
202	8.9	13 33.02	4	3.0283	0.0029	− 5 57 28.8	4	19.030	0.148	82.9	− 6 251
203	9.8	13 51.84	2	3.0504	0.0044	− 2 57 39.5	2	19.021	0.149	83.8	− 3 179
204	6.7	14 29.12	3	3.0434	0.0040	− 3 52 40.3	2	19.004	0.150	82.5; 80.8	− 4 185
205	7.8	14 45.50	7	3.0578	0.0049	− 1 56 27.7	7	18.996	0.151	86.2	− 2 198
206	7.8	1 15 14.60	4	+ 3.0210	+ 0.0026	− 6 47 17.7	4	+ 18.983	− 0.150	82.4	− 6 256
207	8.9	15 36.61	2	3.0416	0.0039	− 4 3 59.1	2	18.972	0.152	81.8	− 4 189
208	8.9	15 41.85	4	3.0524	0.0046	− 2 37 33.7	4	18.970	0.152	83.8	− 2 200
209	8.9	16 3.14	2	3.0327	0.0034	− 5 11 35.7	2	18.960	0.152	84.8	− 5 247
210	8	16 28.73	2	3.0884	0.0038	− 4 25 44.2	2	18.948	0.153	87.8	− 4 193
211	9.8?	1 17 43.84	1	+ 3.0444	+ 0.0042	− 3 35 41.8	1	+ 18.912	− 0.156	92.6	− 3 189
212	8.9	17 48.40	4	3.0221	0.0029	− 6 26 23.4	4	18.909	0.155	84.9	− 6 264
213	8.9	18 14.46	3	3.0481	0.0045	− 3 5 55.9	3	18.896	0.157	84.9	− 3 191
214	7.6	18 42.99	3	3.0450	0.0044	− 3 28 26.0	3	18.882	0.158	80.5	− 3 195
215	7	18 57.81	2	3.0203	0.0029	− 6 34 20.8	2	18.875	0.157	83.4	− 6 270
216	9	1 19 16.98	1	+ 3.0275	+ 0.0034	− 5 39 10.4	1	+ 18.866	− 0.158	87.9	− 5 254
217	7.8	19 47.33	4	3.0360	0.0039	− 4 33 7.0	4	18.851	0.159	85.6	− 4 207
218	8	20 0.06	9	3.0498	0.0047	− 2 49 31.2	9	18.844	0.160	85.7	− 2 213
219	8	20 16.26	4	3.0298	0.0036	− 5 17 44.2	4	18.836	0.160	82.9	− 5 258
220	9	20 27.34	2	3.0473	0.0046	− 3 7 14.6	2	18.831	0.161	84.4	− 3 198
221	9.8?	1 20 31.75	1	+ 3.0537	+ 0.0050	− 2 19 4.8	1	+ 18.828	− 0.161	86.8	− 2 215
222	8	21 50.51	1	3.0381	0.0042	− 4 11 45.5	1	18.789	0.163	78.8	− 4 213
223	8	21 54.74	2	3.0506	0.0049	− 2 39 25.7	2	18.787	0.164	80.9	− 2 221
224	8.9	22 14.20	3	3.0172	0.0030	− 6 41 55.9	3	18.777	0.163	81.9	− 6 275
225	8.9	22 58.54	4	3.0199	0.0032	− 6 19 22.8	3	18.754	0.164	84.1	− 6 278
226	8.9	1 23 14.35	2	+ 3.0406	+ 0.0044	− 3 49 5.3	2	+ 18.746	− 0.166	80.3	− 3 204
227	8.7	23 50.54	8	3.0208	0.0037	− 6 13 0.9	6	18.727	0.166	86.1	− 6 280
228	8.9	24 49.07	3	3.0424	0.0046	− 3 32 12.7	3	18.696	0.168	86.9	− 3 211
229	8	24 56.31	5	3.0250	0.0037	− 5 34 47.7	3	18.692	0.168	85.9; 84.5	− 5 271
230	8.9	25 5.44	3	3.0200	0.0034	− 6 9 49.0	2	18.687	0.168	82.9; 84.4	− 6 284
231	9	1 25 43.69	2	+ 3.0246	+ 0.0032	− 5 34 46.1	2	+ 18.667	− 0.169	87.9	− 5 273
232	8.9	25 59.99	8	3.0164	0.0033	− 6 30 39.2	7	18.658	0.169	84.5	− 6 289
233	9	26 30.37	1	3.0496	0.0051	− 2 38 40.9	1	18.642	0.172	93.9	− 2 234
234	9.8	27 1.92	4	3.0515	0.0052	− 2 24 31.5	2	18.625	0.173	88.6; 86.8	− 2 238
235	9.8	27 8.23	3	3.0150	0.0033	− 6 35 34.0	2	18.622	0.171	83.0; 81.5	− 6 291
236	9.8	1 27 30.15	4	+ 3.0507	+ 0.0052	− 2 28 57.1	2	+ 18.610	− 0.174	88.8; 90.9	− 2 242
237	8.9	27 50.32	10	3.0481	0.0051	− 2 46 39.3	7	18.599	0.174	88.4; 87.4	− 2 245
238	8.9	28 14.62	1	3.0117	0.0032	− 6 53 13.7	1	18.586	0.173	83.9	− 7 257
239	9	28 18.45	1	3.0130	0.0033	− 6 44 21.6	1	18.584	0.173	87.8	− 6 293
240	9.8	28 37.37	1	3.0456	0.0050	3 1 48.7	1	18.573	0.176	80.9	− 3 220
241	8.9	1 28 40.83	8	+ 3.0490	+ 0.0052	− 2 38 50.3	7	+ 18.571	− 0.176	85.2	− 2 250
242	6.7	28 46.62	4	3.0358	0.0045	− 4 8 17.7	4	18.568	0.175	86.9	− 4 237
243	7.8	29 0.29	6	3.0462	0.0051	− 2 57 3.0	5	18.560	0.176	82.4	− 3 224
244	8	29 37.40	8	3.0215	0.0038	− 5 41 35.8	8	18.540	0.176	85.6	− 5 285
245	9.8	29 44.72	2	3.0543	0.0055	− 2 1 12.4	2	18.536	0.178	88.8	− 2 253
246	9.8	1 30 8.18	3	+ 3.0093	+ 0.0033	− 7 1 4.2	3	+ 18.523	− 0.176	86.5	− 7 265
247	8.9	30 57.00	2	3.0372	0.0047	− 3 53 48.0	2	18.495	0.179	88.9	− 4 247
248	8	31 9.60	3	3.0292	0.0043	− 4 45 21.5	3	18.488	0.179	86.5	− 4 248
249	7.8	31 47.20	3	3.0354	0.0047	− 4 3 9.6	3	18.467	0.180	86.2	− 4 249
250	9.8	32 6.29	4	3.0507	0.0055	− 2 22 9.4	4	18.456	0.182	88.6	− 2 261

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
251	8	1 32 43.78	7	+ 3.0138	+ 0.0037	− 6 20 41.1	7	+ 18.435	− 0.181	85.9	− 6 307
252	9.8	33 1.36	5	3.0458	0.0053	− 2 53 3.8	5	18.425	0.183	88.3	− 3 231
253	9	33 5.80	1	3.0521	0.0056	− 2 11 24.3	1	18.422	0.184	93.9	− 2 265
254	8.9	33 32.44	9	3.0433	0.0052	− 3 7 39.3	7	18.406	0.184	85.0; 88.0	− 3 233
255	9.8	33 51.79	3	3.0436	0.0052	− 3 5 18.3	2	18.395	0.185	87.2; 91.9	− 3 234
256	9	1 34 1.55	1	+ 3.0355	+ 0.0048	− 3 57 4.8	1	+ 18.390	− 0.184	88.9	− 4 253
257	8.9	34 19.88	2	3.0249	0.0043	− 5 4 20.6	2	18.379	0.184	84.8	− 5 296
258	8.9	34 20.25	6	3.0517	0.0056	− 2 12 39.2	5	18.379	0.186	88.4; 87.3	− 2 270
259	7.6	34 40.98	5	3.0421	0.0052	− 3 13 43.4	2	18.367	0.187	80.9; 79.4	− 3 289
260	9	34 46.65	1	3.0102	0.0037	− 6 35 35.6	1	18.363	0.184	85.9	− 6 314
261	8.9	1 34 50.97	4	+ 3.0085	+ 0.0036	− 6 46 14.3	4	+ 18.361	− 0.184	83.2	− 6 315
262	9	35 14.62	1	3.0094	0.0037	− 6 38 42.6	1	18.347	0.185	89.9	− 6 318
263	8.9	35 31.61	1	3.0371	0.0050	− 3 43 45.9	1	18.337	0.187	82.8	− 3 240
264	8.7	35 32.74	3	3.0386	0.0051	− 3 34 1.7	3	18.336	0.187	87.9	− 3 241
265	9	35 58.46	4	3.0494	0.0056	− 2 24 40.7	4	18.321	0.189	88.6	− 2 277
266	9	1 36 0.72	2	+ 3.0195	+ 0.0042	− 5 33 7.5	2	+ 18.320	− 0.187	87.9	− 5 300
267	8.9	36 16.54	1	3.0339	0.0049	− 4 1 51.4	1	18.310	0.188	88.9	− 4 259
268	8.9	36 18.63	11	3.0460	0.0055	− 2 45 57.3	11	18.310	0.189	87.0	− 2 278
269	6.5	36 39.48	4	3.0312	0.0048	− 4 17 43.0	4	18.296	0.189	86.9	− 4 260
270	6.7	37 52.20	6	3.0203	0.0044	− 5 22 9.7	6	18.253	0.190	86.9	− 5 309
271	9	1 38 58.64	2	+ 3.0097	+ 0.0040	− 6 23 0.5	2	+ 18.212	− 0.192	91.9	− 6 330
272	8	39 16.64	6	3.0358	0.0051	− 3 46 19.2	5	18.202	0.194	85.5	− 3 250
273	8.9	39 43.92	5	3.0474	0.0057	− 2 31 43.5	5	18.185	0.195	91.7	− 2 291
274	8	39 54.64	4	3.0246	0.0047	− 4 49 47.2	4	18.178	0.194	86.1	− 4 269
275	6.7	39 57.89	6	3.0096	0.0040	− 6 20 4.4	5	18.176	0.193	84.9; 83.5	− 6 336
276	9.8	1 40 4.51	4	+ 3.0025	+ 0.0037	− 7 2 40.2	4	+ 18.172	− 0.193	82.4	− 7 291
277	9.8	40 26.36	1	3.0432	0.0056	− 2 56 28.7	1	18.159	0.196	91.9	− 3 254
278	8.7	40 58.68	3	3.0353	0.0052	− 3 42 56.5	2	18.139	0.197	88.5; 89.8	− 3 258
279	8	41 27.71	6	3.0372	0.0053	− 3 30 38.1	6	18.120	0.198	84.2	− 3 260
280	8.9	41 34.35	3	3.0338	0.0052	− 3 50 26.6	2	18.116	0.198	85.8; 87.4	− 3 262
281	8.9	1 42 32.34	5	+ 3.0508	+ 0.0060	− 2 7 48.5	5	+ 18.080	− 0.198	89.1	− 2 298
282	9	43 35.15	1	3.0281	0.0050	− 4 20 12.3	1	18.040	0.201	88.9	− 4 278
283	9.8	43 52.19	4	3.0164	0.0045	− 5 27 24.0	4	18.029	0.200	86.9	− 5 323
284	8.9	43 59.61	3	3.0027	0.0040	− 6 46 27.1	3	18.025	0.200	86.2	− 6 345
285	9.8?	44 13.55	1	2.9971	0.0038	− 7 18 4.3	1	18.01[illegible]	0.200	83.9	− 7 308
286	8.9	1 44 31.83	10	+ 3.0450	+ 0.0058	− 2 39 29.9	10	+ 18.004	− 0.203	86.2	− 2 306
287	9.8	44 35.03	2	3.0151	0.0046	− 5 33 7.4	2	18.002	0.202	89.4	− 5 327
288	8.7	45 24.85	7	3.0224	0.0049	− 4 48 46.9	7	17.970	0.203	88.7	− 4 285
289	7.8	45 30.82	5	3.0388	0.0056	− 3 13 54.7	5	17.966	0.205	85.3	− 3 268
290	9	46 13.32	1	3.0313	0.0053	− 3 55 44.5	1	17.938	0.205	88.9	− 4 289
291	9	1 46 28.20	1	+ 3.0449	+ 0.0059	− 2 37 18.7	1	+ 17.928	− 0.207	86.9	− 2 309
292	9.8	46 40.70	7	3.0517	0.0062	− 1 58 24.7	4	17.920	0.207	88.2	− 2 310
293	9.8	46 42.21	4	3.0334	0.0054	− 3 42 40.5	4	17.919	0.206	86.6	− 3 273
294	9	46 43.30	1	3.0158	0.0047	− 5 22 51.7	1	17.918	0.205	87.9	− 5 333
295	7.8	47 0.96	8	3.0523	0.0062	− 1 54 31.3	3	17.907	0.208	87.4; 85.3	− 2 311
296	9.8	1 47 3.88	1	+ 3.0501	+ 0.0062	− 2 6 40.7	1	+ 17.905	− 0.208	80.8	− 2 312
297	9	47 7.09	2	3.0438	0.0059	− 2 45 47.5	2	17.903	0.208	90.4	− 2 313
298	9.8	47 39.59	5	3.0519	0.0063	− 1 56 24.6	2	17.882	0.209	88.7; 86.8	− 2 314
299	8	48 36.95	5	2.9989	0.0042	− 6 51 48.2	5	17.844	0.207	86.3	− 6 360
300	8	48 48.14	3	2.9955	0.0040	− 7 10 54.1	3	17.836	0.207	84.2	− 7 319

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
301	9.8	1	48	52.38	2	+ 3.0455	+ 0.0060	— 2	30	55.0	2	+ 17.833	— 0.211	93.4	— 2	317
302	9.8		49	5.39	3	3.0335	0.0056	— 3	37	53.5	3	17.825	0.210	86.9	— 3	281
303	9		49	7.71	2	3.0373	0.0057	— 3	16	4.1	2	17.823	0.211	84.3	— 3	282
304	9		49	52.72	1	3.0306	0.0055	— 3	52	29.0	1	17.793	0.212	88.9	— 3	288
305	8.9		50	16.08	8	3.0208	0.0051	— 4	46	2.0	8	17.777	0.212	85.1	— 4	303
306	9.8	1	51	5.75	2	+ 3.0473	+ 0.0062	— 2	18	14.1	2	+ 17.744	— 0.215	90.4	— 2	325
307	9.8		51	32.33	4	3.0426	0.0061	— 2	43	3.9	2	17.725	0.215	85.6; 91.9	— 2	328
308	9		51	37.02	3	3.0086	0.0047	— 5	48	49.1	3	17.722	0.213	87.6	— 5	351
309	9.8		51	50.63	6	3.0429	0.0061	— 2	41	3.5	3	17.713	0.216	90.4; 89.6	— 2	329
310	9.8		51	52.18	1	3.0252	0.0054	— 4	17	46.4	1	17.712	0.215	88.9	— 4	307
311	7.8	1	51	53.50	11	+ 3.0434	+ 0.0061	— 2	38	43.3	6	+ 17.711	— 0.216	87.0; 82.7	— 2	330
312	9.8		52	3.55	1	3.0186	0.0051	— 4	53	17.1	1	17.704	0.214	92.0	— 5	357
313	9.8		52	19.74	9	3.0427	0.0061	— 2	41	36.6	3	17.693	0.217	86.8	— 2	331
314	8.9		52	50.85	2	3.0393	0.0060	— 2	59	24.4	2	17.672	0.217	88.9	— 3	290
315	9.8		53	1.69	3	3.0492	0.0064	— 2	5	27.7	3	17.664	0.218	89.2	— 2	333
316	9?	1	53	21.89	1	+ 3.0439	+ 0.0062	— 2	34	10.0	1	+ 17.650	— 0.218	89.9	— 2	334
317	9.8		54	5.32	2	3.0133	0.0050	— 5	16	59.6	2	17.620	0.218	86.9	— 5	365
318	8.9		54	5.85	8	3.0180	0.0052	— 4	52	3.5	7	17.620	0.218	89.1	— 4	311
319	7.8		54	11.32	6	3.0282	0.0056	— 3	57	2.0	6	17.616	0.219	85.0	— 4	312
320	9		54	31.20	1	3.0217	0.0054	— 4	31	15.0	1	17.602	0.219	88.9	— 4	314
321	9	1	54	54.94	1	+ 3.0472	+ 0.0064	— 2	14	36.4	1	+ 17.585	— 0.221	94.9	— 2	340
322	8.9		54	58.96	3	3.0378	0.0060	— 3	4	41.6	3	17.582	0.221	86.2	— 3	300
323	9.8		55	1.66	5	3.0177	0.0053	— 4	51	12.9	2	17.580	0.219	86.9; 85.4	— 4	316
324	8.9		55	21.05	8	3.0116	0.0050	— 5	23	0.4	3	17.567	0.219	87.6	— 5	372
325	9.8		55	27.62	6	2.9917	0.0043	— 7	7	13.2	6	17.562	0.218	85.6	— 7	343
326	9	1	55	57.98	1	+ 2.9962	+ 0.0054	— 6	41	53.7	1	+ 17.541	— 0.224	91.8	— 6	386
327	8.9		55	59.26	4	3.0365	0.0060	— 3	9	47.8	3	17.540	0.222	86.1; 83.2	— 3	301
328	9		56	24.08	1	3.0422	0.0062	— 2	39	2.1	1	17.522	0.223	96.8	— 2	344
329	8.9		56	34.03	2	3.0473	0.0064	— 2	12	10.0	2	17.515	0.224	86.8	— 2	345
330	7		56	46.89	7	3.0387	0.0061	— 2	57	20.9	6	17.506	0.224	89.4	— 3	304
331	9	1	57	7.07	1	+ 3.0202	+ 0.0055	— 4	33	22.4	1	+ 17.492	— 0.223	88.9	— 4	323
332	8		57	23.58	5	3.0161	0.0053	— 4	54	30.4	5	17.480	0.223	87.8	— 5	381
333	6.7		57	37.80	4	3.0193	0.0054	— 4	40	48.4	4	17.470	0.224	84.6	— 4	324
334	8.9		57	47.18	2	3.0130	0.0052	— 5	9	15.8	2	17.463	0.223	87.9	— 5	382
335	8		57	49.81	5	3.0346	0.0060	— 3	17	23.6	4	17.461	0.225	82.7	— 3	308
336	9.8	1	57	53.02	10	+ 3.0421	+ 0.0063	— 2	37	55.5	9	+ 17.459	— 0.226	85.7	— 2	351
337	9		58	14.04	1	2.9900	0.0044	— 7	7	7.7	1	17.444	0.224	91.9	— 7	351
338	8		58	14.25	5	2.9997	0.0047	— 6	17	18.4	5	17.444	0.223	82.3	— 6	397
339	8.9		58	58.23	6	3.0421	0.0064	— 2	36	49.7	4	17.412	0.228	88.0	— 2	357
340	8.9		59	6.95	1	3.0145	0.0054	— 4	58	51.4	1	17.406	0.226	83.8	— 5	386
341	9	2	0	11.80	1	+ 3.0209	+ 0.0056	— 4	23	42.3	1	+ 17.358	— 0.228	88.9	— 4	333
342	8.7		0	12.81	6	3.0145	0.0054	— 4	56	20.1	5	17.358	0.228	87.5	— 5	387
343	9.8		0	23.05	2	3.0395	0.0063	— 2	48	24.2	2	17.350	0.230	84.9	— 2	360
344	8.9		0	41.34	6	2.9976	0.0048	— 6	21	4.9	6	17.337	0.227	84.9	— 6	407
345	8		0	50.50	7	3.0442	0.0065	— 2	23	47.4	7	17.330	0.230	85.2	— 2	362
346	8	2	0	59.96	2	+ 3.0159	+ 0.0055	— 4	47	24.6	2	+ 17.323	— 0.229	82.3	— 4	338
347	8.9		1	30.75	1	2.9901	0.0046	— 6	56	15.1	1	17.300	0.228	78.8	— 7	363
348	9.8		2	18.57	1	2.9971	0.0049	— 6	18	48.3	1	17.265	0.230	89.9	— 6	412
349	8.9		2	27.84	3	2.9988	0.0046	— 7	2	22.7	3	17.258	0.229	86.2	— 7	365
350	7.8		2	33.15	2	2.9857	0.0046	— 7	14	54.6	2	17.254	0.229	84.9	— 7	366

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		h	m	s		s	s	°	'	"		"	"		°	
351	6.7	2	3	4.97	10	+ 3.0377	+ 0.0064	— 2	54	0.6	10	+ 17.231	— 0.234	86.2	— 3	324
352	8.9		4	31.06	6	3.0243	0.0060	— 3	58	49.0	6	17.166	0.235	84.2	— 4	350
353	9		4	45.90	1	3.0304	0.0062	— 3	23	12.1	1	17.155	0.236	91.9	— 3	327
354	9		4	49.62	1	3.0351	0.0063	- 3	4	43.3	1	17.152	0.237	91.8	— 3	328
355	9.8		4	53.09	3	3.0423	0.0066	— 2	28	58.7	3	17.150	0.237	86.6	— 2	373
356	9	2	5	15.72	1	+ 3.0464	+ 0.0067	— 2	8	20.7	1	+ 17.132	— 0.238	93.9	— 2	374
357	9.8		5	20.05	1	2.9967	0.0050	— 6	12	27.6	1	17.129	0.235	89.9	— 6	420
358	6.7		5	30.23	9	3.0433	0.0066	— 2	23	25.8	6	17.121	0.238	84.5; 83.4	— 2	375
359	8.9		5	32.88	6	3.0409	0.0066	— 2	35	12.3	5	17.119	0.238	88.6; 87.9	— 2	377
360	8.9		5	42.19	6	2.9905	0.0049	— 6	42	0.3	6	17.112	0.235	86.6	— 6	421
361	9.8	2	5	51.56	1	+ 3.0121	+ 0.0056	— 4	55	46.8	1	+ 17.105	— 0.237	95.9	— 5	404
362	8.9		6	36.57	2	3.0382	0.0065	— 2	47	29.6	2	17.071	0.240	88.4	— 2	379
363	9.8		6	39.21	2	3.0361	0.0064	— 2	57	31.5	2	17.069	0.240	91.3	— 3	335
364	7		6	40.01	5	3.0361	0.0064	— 2	57	19.8	3	17.068	0.240	86.4; 83.2	— 3	336
365	8		7	38.31	3	3.0280	0.0062	— 3	35	38.9	3	17.023	0.241	87.5	— 3	340
366	9	2	7	38.35	1	+ 3.0187	+ 0.0059	— 4	20	18.3	1	+ 17.023	— 0.240	88.9	— 4	360
367	8		8	21.66	2	2.9998	0.0053	— 5	49	48.8	2	16.990	0.240	85.9	— 5	411
368	9.8		8	52.31	2	2.9890	0.0050	— 6	40	3.5	2	16.966	0.240	88.9	— 6	434
369	9.8		9	20.99	6	3.0412	0.0067	— 2	29	40.7	6	16.944	0.244	88.2	— 2	386
370	8.9		9	54.11	2	3.0139	0.0058	— 4	39	8.3	2	16.918	0.243	83.4	— 4	366
371	9	2	10	3.82	2	+ 3.0167	+ 0.0059	— 4	25	34.9	2	+ 16.910	— 0.244	88.9	— 4	367
372	9.8		10	45.95	1	3.0284	0.0064	— 3	27	49.2	1	16.877	0.246	91.9	— 3	344
373	7		10	59.05	2	2.9818	0.0049	— 7	8	3.7	2	16.867	0.242	83.9	— 7	392
374	8.9		11	42.13	3	3.0394	0.0067	— 2	35	47.5	3	16.833	0.248	93 6	— 2	389
375	9.8		11	49.59	3	3.0098	0.0058	— 4	54	46.0	2	16.827	0.246	92.9	— 5	425
376	9	2	11	49.97	1	+ 3.0299	+ 0.0064	— 3	20	28.0	1	+ 16.826	— 0.247	94.9	— 3	347
377	9		12	13.24	1	3.0130	0.0059	— 4	39	10.6	1	16.808	0.247	88.9	— 4	374
378	8.9		12	24.18	4	3.0099	0.0058	— 4	53	23.2	2	16 799	0.247	90.9	— 5	429
379	8		12	29.84	2	3.0030	0.0056	— 5	25	28.7	2	16.795	0.247	85.9	— 5	430
380	8.9		12	51.56	1	3.0430	0.0069	— 2	17	46.4	1	16.777	0.250	93.9	— 2	393
381	7.6	2	13	38.97	4	+ 3.0092	+ 0.0058	— 4	58	53.2	1	+ 16.740	— 0.249	88.4; 85.8	— 5	438
382	8.		13	57.26	4	2.9834	0.0051	— 6	52	26.5	1	16.725	0.247	86.4	— 6	453
383	8		14	2.76	3	3.0196	0.0062	— 4	5	8.8	3	16.720	0.250	85.0	— 4	379
384	8.9		14	32.60	3	2.9824	0.0051	— 6	55	45.9	3	16.696	0.248	86.6	— 7	407
385	9		14	32.74	1	2.9849	0.0052	— 6	44	19.3	1	16.696	0.248	85.9	— 6	456
386	8	2	17	24.14	3	+ 2.9832	+ 0.0052	— 6	44	21.1	3	+ 16.556	— 0.253	86.9	— 6	470
387	9.8		17	36.61	1	3.0206	0.0063	— 3	55	19.5	1	16.546	0.256	88.9	— 4	390
388	9.8		18	11.86	5	3.0398	0.0069	— 2	27	33.6	4	16.517	0.258	88.6; 87.2	— 2	401
389	8		18	19.60	4	3.0240	0.0065	— 3	38	43.3	4	16.511	0.257	84.6	— 3	372
390	9		18	24.42	2	3.0419	0.0070	— 2	17	46.0	2	16.507	0.259	93.0	— 2	404
391	9.8	2	18	31.41	9	+ 3.0385	+ 0.0069	— 2	33	12.2	6	+ 16.501	— 0.259	88.9	— 2	405
392	7.8		18	54.27	6	3.0133	0.0062	— 4	26	7.3	3	16.482	0.257	87.5; 83.6	— 4	394
393	6.7		18	54.57	5	3.0281	0.0066	— 3	19	26.8	5	16.482	0.259	86.3	— 3	374
394	8.9		19	6.52	6	3.0134	0.0062	— 4	25	12.0	4	16.472	0.258	87.6; 90.7	— 4	396
395	9		20	22.44	2	3.0130	0.0062	— 4	25	6.0	2	16.408	0.260	87.9	— 4	400
396	9	2	20	59.86	1	+ 3.0177	+ 0.0064	— 4	2	59.4	1	+ 16.377	— 0.261	88.9	— 4	402
397	8.9		21	6.71	3	2.9824	0.0054	— 6	38	20.3	3	16.371	0.258	83.5	— 6	481
398	9.8		21	12.76	1	3.0210	0.0065	— 3	48	10.5	1	16.366	0.262	95.9	— 3	383
399	8.9		21	24.13	1	3.0283	0.0067	— 3	15	44.7	1	16.356	0.263	96.9	— 3	384
400	9.8		21	27.33	3	3.0388	0.0070	— 2	29	6.1	3	16.354	0.264	87.6	— 2	412

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
401	9.8	2	21	32.27	1	+ 3.0378	+ 0.0070	— 2	33	13.4	1	+ 16.350	— 0.264	96.9	— 2	413
402	9.8		22	31.53	1	3.0182	0.0064	— 3	58	27.3	1	16.299	0.263	85.8	— 4	404
403	8		23	4.28	2	2.9904	0.0057	— 5	59	0.2	2	16.272	0.262	85.9	— 6	486
404	9.8		23	38.24	5	3.0339	0.0069	— 2	48	11.1	5	16.243	0.266	89.6	— 2	419
405	8.9		23	59.83	13	3.0322	0.0069	— 2	55	36.4	8	16.224	0.268	88.2	— 3	389
406	9	2	24	11.29	1	+ 3.0382	+ 0.0071	— 2	29	10.0	1	+ 16.214	— 0.268	96.9	— 2	402
407	8		24	26.59	2	2.9956	0.0059	— 5	33	52.2	2	16.201	0.264	82.0	— 5	471
408	8.9		24	26.71	5	3.0420	0.0072	— 2	12	20.6	5	16.201	0.268	84.5	— 2	423
409	9		24	38.09	1	3.0358	0.0070	— 2	39	10.8	1	16.191	0.268	94.0	— 2	426
410	9		25	34.91	1	3.0098	0.0063	— 4	30	38.8	1	16.142	0.267	88.9	— 4	412
411	9.8	2	26	10.30	1	+ 2.9829	+ 0.0056	— 6	24	28.3	1	+ 16.111	— 0.266	91.8	— 6	497
412	8.9		26	35.67	1	3.0404	0.0072	— 2	17	15.6	1	16.089	0.272	80.9	— 2	433
413	9.8		27	4.80	3	3.0314	0.0070	— 2	55	32.3	3	16.064	0.272	89.2	— 3	396
414	9		27	34.34	1	3.0153	0.0065	— 4	3	54.5	1	16.038	0.271	88.9	— 4	421
415	9		27	51.11	3	3.0339	0.0070	— 2	44	7.2	3	16.024	0.273	92.0	— 2	439
416	8.9	2	27	54.68	3	+ 2.9802	+ 0.0056	— 6	32	7.6	3	+ 16.020	— 0.268	87.9	— 6	501
417	8.7		28	8.57	5	2.9854	0.0058	— 6	9	51.4	5	16.008	0.269	85.1	— 6	502
418	8.7		29	18.95	10	3.0146	0.0066	— 4	4	20.7	5	15.946	0.274	87.5; 84.9	— 4	426
419	8.9		29	19.21	6	3.0300	0.0070	— 2	59	11.4	6	15.946	0.275	89.4	— 3	406
420	8.9		29	31.25	10	3.0158	0.0066	— 3	59	0.2	7	15.935	0.274	87.9	— 4	428
421	9.8	2	29	34.20	3	+ 2.9842	+ 0.0058	— 6	11	44.0	2	+ 15.933	— 0.271	84.6; 87.4	— 6	506
422	8.9		29	44.37	1	3.0389	0.0072	— 2	21	16.6	1	15.924	0.276	80.9	— 2	444
423	8.9		30	4.94	5	3.0040	0.0063	— 4	47	56.4	5	15.905	0.274	86.2	— 4	431
424	9		30	52.97	1	3.0386	0.0072	— 2	21	37.8	1	15.863	0.278	96.9	— 2	451
425	7.8		31	3.53	8	3.0314	0.0071	— 2	51	28.7	7	15.853	0.278	87.6	— 2	452
426	9.8	2	31	21.99	4	+ 3.0318	+ 0.0071	— 2	49	57.1	1	+ 15.837	— 0.278	88.7; 90.0	— 2	454
427	8.9		31	32.00	4	2.9917	0.0060	— 5	36	44.6	4	15.828	0.275	86.4	— 5	491
428	6.5		31	39.01	2	3.0161	0.0067	— 3	55	2.0	2	15.821	0.277	85.4	— 4	436
429	9.8		31	42.07	1	3.0300	0.0070	— 2	57	3.8	1	15.819	0.278	96.9	— 3	413
430	9.8		32	50.54	3	3.0419	0.0074	— 2	6	19.0	3	15.757	0.281	86.6	— 2	460
431	9.8	2	32	54.81	1	+ 3.0275	+ 0.0070	— 3	6	4.7	1	+ 15.753	— 0.280	94.9	— 3	415
432	8.9		33	13.21	2	3.0373	0.0073	— 2	25	12.2	2	15.737	0.281	85.4	— 2	462
433	8.9		33	14.99	3	3.0349	0.0072	— 2	35	29.2	3	15.735	0.281	84.6	— 2	463
434	9		34	8.47	1	2.9819	0.0059	— 6	11	46.4	1	15.687	0.278	91.8	— 6	513
435	8		34	35.10	2	2.9913	0.0061	— 5	32	27.8	2	15.662	0.279	84.4	— 5	498
436	8.9	2	34	35.49	1	+ 3.0106	+ 0.0066	— 4	13	35.9	1	+ 15.662	— 0.281	92.0	— 4	446
437	9.8		35	13.94	1	2.9949	0.0062	— 5	17	3.5	1	15.627	0.280	85.9	— 5	501
438	7.8		35	45.88	5	3.0176	0.0068	— 3	43	39.6	5	15.598	0.283	84.3	— 3	421
439	9.8		36	13.55	5	3.0302	0.0072	— 2	51	57.0	5	15.572	0.285	87.2	— 2	476
440	9		36	21.18	1	3.0453	0.0075	— 1	50	6.3	1	15.565	0.287	88.0	— 1	382
441	9	2	36	37.77	1	+ 3.0135	+ 0.0067	— 3	59	9.6	1	+ 15.554	— 0.284	88.9	— 4	452
442	8.9		36	55.21	4	2.9685	0.0057	— 6	59	58.1	3	15.534	0.280	86.4	— 7	473
443	7		37	24.98	2	3.0270	0.0071	— 3	2	36.0	2	15.506	0.287	86.4	— 3	426
444	7		38	2.32	2	2.9751	0.0058	— 6	31	12.7	2	15.472	0.283	85.4	— 6	524
445	8.9		38	3.32	2	2.9700	0.0057	— 6	51	25.6	1	15.471	0.282	85.9	— 6	525
446	8	2	38	11.87	2	+ 2.9690	+ 0.0057	— 6	55	26.8	1	+ 15.463	— 0.282	85.9	— 7	481
447	8.9		38	21.47	2	2.9974	0.0064	— 5	1	46.8	2	15.454	0.285	82.1	— 5	509
448	8.9		38	35.26	1	3.0356	0.0073	— 2	28	15.9	1	15.441	0.289	80.9	— 2	480
449	9		39	34.87	2	2.9693	0.0058	— 6	51	12.1	2	15.386	0.284	87.9	— 6	539
450	8.7		40	0.01	4	2.9902	0.0063	— 5	27	47.4	3	15.362	0.287	87.6	— 5	514

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	′	″		″	″		°
451	9	2	40	26.58	2	+3.0439	+0.0076	−1	58	17.5	2	+15.337	−0.293	86.0	−1 391
452	8		40	38.08	2	2.9633	0.0057	−7	12	24.1	2	15.326	0.285	84.9	−7 489
453	9		40	42.72	1	3.0400	0.0075	−2	9	2.0	1	15.322	0.293	93.9	−2 485
454	8		40	49.23	2	2.9766	0.0060	−6	20	12.7	2	15.316	0.287	85.9	−6 540
455	9.8		41	5.76	3	3.0160	0.0069	−3	43	52.0	1	15.300	0.291	89.6; 81.9	−3 436
456	8.9	2	41	15.78	1	+2.9773	+0.0060	−6	16	21.1	1	+15.291	−0.288	83.0	−6 542
457	8.9		41	23.01	5	3.0149	0.0069	−3	48	1.6	4	15.284	0.291	85.5; 86.4	−3 437
458	9		41	31.56	1	3.0256	0.0072	−3	5	10.7	1	15.276	0.292	94.9	−3 438
459	8.7		42	11.40	5	3.0097	0.0068	−4	7	14.6	5	15.238	0.292	87.1	−4 470
460	8.9		42	21.65	1	2.9904	0.0063	−5	22	53.7	1	15.229	0.290	85.8	−5 519
461	8	2	42	23.37	3	+2.9898	+0.0063	−5	25	20.3	2	+15.227	−0.290	88.2; 89.4	−5 521
462	8		42	30.89	2	2.9702	0.0059	−6	41	19.5	2	15.220	0.289	88.9	−6 549
463	7		42	31.62	2	2.9772	0.0060	−6	14	24.2	2	15.219	0.289	85.9	−6 550
464	8		42	46.32	4	3.0417	0.0076	−2	0	56.2	4	15.205	0.296	84.2	−2 491
465	8		42	56.90	3	2.9858	0.0062	−5	40	7.2	3	15.195	0.291	85.7	−5 524
466	8	2	43	2.11	2	+3.0002	+0.0066	−4	43	28.2	2	+15.190	−0.292	82.1	−4 476
467	9		43	4.61	1	3.0022	0.0066	−4	35	32.6	1	15.188	0.292	88.9	−4 477
468	9.8		44	1.06	1	2.9923	0.0064	−5	12	38.9	1	15.134	0.293	85.9	−5 527
469	8		44	22.65	4	2.9880	0.0063	−5	29	4.5	4	15.113	0.293	86.4	−5 528
470	7		44	24.57	1	2.9597	0.0057	−7	18	9.7	1	15.111	0.290	83.9	−7 505
471	9	2	45	3.15	1	+2.9650	+0.0058	−6	56	26.5	1	+15.074	−0.292	85.9	−6 508
472	8		45	19.75	3	3.0185	0.0070	−3	29	35.3	3	15.058	0.297	84.2	−3 453
473	9		46	1.48	1	3.0335	0.0074	−2	30	26.1	1	15.018	0.300	89.9	−2 505
474	9.8		46	12.82	1	3.0162	0.0070	−3	37	27.1	1	15.007	0.298	94.9	−3 455
475	8.9?		46	35.05	1	2.9704	0.0060	−6	32	56.2	1	14.986	0.294	91.8	−6 563
476	8.9	2	47	0.87	3	+2.9771	+0.0062	−6	6	15.6	3	+14.960	−0.296	86.9	−6 566
477	7.8		47	14.63	6	2.9827	0.0063	−5	44	28.7	5	14.947	0.296	87.9	−5 536
478	9		47	25.23	1	3.0103	0.0069	−3	59	5.6	1	14.937	0.299	88.9	−4 489
479	8.9		47	30.04	1	3.0391	0.0076	−2	7	54.9	1	14.932	0.302	83.9	−2 511
480	8		47	43.15	4	2.9983	0.0066	−4	44	16.5	4	14.919	0.299	83.5	−4 491
481	9.8	2	47	45.81	2	+3.0308	+0.0074	−2	39	40.9	2	+14.917	−0.302	85.4	−2 515
482	7.8		48	40.58	3	2.9809	0.0063	−5	49	14.2	2	14.863	0.298	89.2; 85.9	−5 541
483	9.8		48	49.14	2	3.0284	0.0073	−2	48	6.9	2	14.855	0.303	84.0	−2 517
484	8		48	55.73	4	3.0127	0.0070	−3	47	41.0	4	14.848	0.302	88.4	−3 459
485	6		50	36.50	3	3.0059	0.0069	−4	11	46.9	3	14.749	0.303	83.9	−4 502
486	8.9	2	50	40.06	1	+2.9653	+0.0060	−6	44	16.7	1	+14.746	−0.299	91.8	−6 574
487	8.9		50	43.22	2	2.9797	0.0063	−5	50	13.1	2	14.742	0.301	84.4	−5 546
488	9		50	44.85	1	2.9746	0.0062	−6	9	22.7	1	14.741	0.300	91.9	−6 575
489	9		50	51.32	1	3.0398	0.0076	−2	3	25.7	1	14.734	0.307	88.0	−2 521
490	8.9		50	57.22	4	3.0366	0.0076	−2	15	21.2	3	14.729	0.307	84.2; 86.2	−2 522
491	7	2	51	55.81	3	+3.0275	+0.0074	−2	49	9.8	3	+14.671	−0.307	87.2	−2 526
492	9		51	57.56	1	2.9892	0.0065	−5	12	28.7	1	14.669	0.304	85.9	−5 553
493	8.9		52	18.63	1	3.0394	0.0076	−2	3	47.5	1	14.648	0.309	90.0	−2 529
494	6		52	39.39	5	3.0202	0.0072	−3	15	43.9	5	14.627	0.308	85.5	−3 470
495	8		52	39.69	3	2.9973	0.0067	−4	41	24.0	3	14.627	0.305	85.6	−4 506
496	6	2	53	37.66	2	+3.0251	+0.0073	−2	56	36.4	2	+14.569	−0.309	90.4	−3 475
497	9.8		53	38.15	1	3.0239	0.0073	−3	1	3.8	1	14.568	0.309	94.9	−3 476
498	8.7		53	58.79	4	3.0356	0.0076	−2	16	57.5	4	14.548	0.311	84.2	−2 532
499	8.9		54	6.25	4	3.0055	0.0069	−4	9	5.5	4	14.540	0.308	88.2	−4 512
500	9.8		54	43.03	1	2.9580	0.0060	−7	3	30.1	1	14.503	0.304	83.9	−7 534

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
501	8.7	2	54	48.16	3	+ 3.0182	+ 0.0072	− 3	21	20.4	1	+ 14 498	− 0.310	85.2; 81.9	− 3	478
502	8.9		55	58.32	1	3.0169	0.0072	− 3	24	55.8	1	14.427	0.312	91.9	− 3	482
503	8		56	13.11	1	2.9588	0.0060	− 6	57	52.3	1	14.412	0.306	83.9	− 7	537
504	8		56	56.85	4	3.0307	0.0075	− 2	33	33.6	4	14.368	0.315	85.9	− 2	538
505	8		57	39.46	5	2.9718	0.0063	− 6	7	48.9	3	14.324	0.309	88.5	− 6	594
506	7.8	2	58	8.46	5	+ 2.9785	+ 0.0064	− 5	42	49.5	5	+ 14.295	− 0.311	84.4	− 5	568
507	8.9		58	12.23	3	2.9936	0.0067	− 4	47	48.9	3	14.291	0.312	85.6	− 4	520
508	9.8		58	43.89	1	3.0406	0.0077	− 1	56	10.2	1	14.258	0.318	89.9	− 2	545
509	8	3	0	43.92	3	2.9541	0.0060	− 7	6	32.2	3	14.135	0.312	83.3	− 7	546
510	8		0	50.03	2	2.9807	0.0065	− 5	30	58.1	2	14.128	0.314	81.5	− 5	579
511	7	3	1	8.35	5	+ 3.0347	+ 0.0076	− 2	15	58.1	5	+ 14.110	− 0.320	82.9	− 2	554
512	8		1	21.74	2	2.9749	0.0064	− 5	50	56.1	2	14.096	0.315	85.9	− 5	581
513	9.8		1	36 66	2	3.0373	0.0077	− 2	6	37.8	2	14.080	0.320	85.5	− 2	555
514	8		1	52.31	1	2.9683	0.0063	− 6	13	43.4	1	14.064	0.315	83.0	− 6	610
515	9.8		2	25.79	1	3.0047	0.0070	− 4	3	6.2	1	14.029	0.319	81.9	− 4	529
516	8.9	3	4	5.11	4	+ 2.9744	+ 0.0065	− 5	48	46.8	2	+ 13.925	− 0.318	84.0	− 5	589
517	8		4	13.28	3	3.0362	0.0077	− 2	9	5.0	3	13.916	0.325	88.3	− 2	563
518	9.8		4	22.66	4	2.9962	0.0069	− 4	31	22.0	4	13.907	0.321	87.5	− 4	537
519	8		4	40.86	5	2.9735	0.0064	− 5	51	5.1	3	13.888	0.319	85.6; 86.3	− 5	592
520	8.9		4	47.74	3	2.9542	0.0061	− 6	58	58.3	2	13.880	0.317	83.3; 82.0	− 7	557
521	8.9	3	4	52.24	1	+ 2.9533	+ 0.0061	− 7	1	54.0	1	+ 13.876	− 0.317	85.9	− 7	558
522	6.7		5	18.38	3	3.0002	0.0070	− 4	15	58.5	3	13.848	0.322	82.3	− 4	540
523	9.8		5	40.58	3	2.9677	0.0064	− 6	9	56.3	3	13.825	0.319	85.0	− 6	621
524	8.9		6	1.55	1	3.0233	0.0074	− 2	53	50.5	1	13.802	0.326	84.0	− 2	572
525	8.9		6	26.95	1	3.0137	0.0072	− 3	27	10.0	1	13.776	0.325	86.0	− 3	512
526	8.9	3	6	52.54	5	+ 2.9772	+ 0.0066	− 5	35	0.1	5	+ 13.743	− 0.322	85.0	− 5	596
527	9.8		7	54.24	2	2.9875	0.0068	− 4	57	46.6	2	13.683	0.324	85.5	− 5	598
528	8.9		8	26.69	1	2.9765	0.0066	− 5	35	14.1	1	13.648	0.324	85.9	− 5	600
529	8.7		8	32.55	1	3.0248	0.0074	− 2	46	50.4	1	13.642	0.329	80.1	− 2	581
530	8.9		9	20.90	1	3.0273	0.0075	− 2	37	19.7	1	13.590	0.330	84.0	− 2	583
531	6	3	10	4.75	2	+ 2.9624	+ 0.0063	− 6	21	51.6	2	+ 13.543	− 0.324	82.1	− 6	636
532	7		10	25.34	2	2.9655	0.0064	− 6	10	26.3	2	13.521	0.325	86.0	− 6	638
533	7		10	28.14	3	2.9906	0.0068	− 4	43	49.9	2	13.518	0.328	83.1	− 4	558
534	8		10	39.04	1	3.0037	0.0071	− 3	58	18.0	1	13.506	0.330	86.0	− 4	560
535	8		10	43.12	1	3.0066	0.0071	− 3	48	26.8	1	13.502	0.330	80.1	− 3	525
536	8	3	11	10.15	2	+ 2.9930	+ 0.0069	− 4	34	54.9	2	+ 13.472	− 0.329	89.5	− 4	561
537	9.8		12	27.19	4	3.0366	0.0077	− 2	3	25.2	4	13.389	0.335	89.8	− 2	597
538	7		12	57.57	4	3.0152	0.0073	− 3	16	43.2	4	13.356	0.334	85.2	− 3	534
539	8.9		13	0.76	4	2.9818	0.0067	− 5	11	4.2	4	13.353	0.330	87.2	− 5	618
540	8		13	57.54	4	3.0369	0.0077	− 2	1	42.9	3	13.291	0.337	84.2; 81.6	− 2	604
541	9.8	3	14	4.67	3	+ 3.0378	+ 0.0077	− 1	58	30.9	1	+ 13.283	− 0.338	87.0; 90.0	− 2	606
542	9		14	38.68	1	2.9883	0.0068	− 4	47	14.4	1	13.246	0.333	85.1	− 4	570
543	8		14	47.87	3	3.0102	0.0072	− 3	32	36.0	3	13.236	0.336	83.4	− 3	540
544	8		16	13.91	3	2.9739	0.0066	− 5	34	7.7	3	13.141	0.333	84.3	− 5	628
545	9.8		16	19.14	2	2.9630	0.0064	− 6	10	37.0	2	13.135	0.332	86.0	− 6	663
546	9.8	3	16	47.33	1	+ 3.0284	+ 0.0075	− 2	29	21.6	1	+ 13.104	− 0.340	95.9	− 2	611
547	9		17	7.36	2	3.0384	0.0077	− 1	55	15.5	2	13.082	0.341	88.5	− 2	612
548	9		17	55.93	1	2.9653	0.0064	− 6	0	47.9	1	13.028	0.334	83.0	− 6	670
549	9		18	28.63	1	3.0385	0.0077	− 1	54	23.9	1	12.992	0.343	90.0	− 1	486
550	8		18	31.94	3	3.0018	0.0071	− 3	57	45.1	3	12.988	0.339	84.7	− 4	585

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
551	9.8	3 18 54.44	1	+ 3.0233	+ 0.0074	− 2 45 5.9	1	+ 12.963	− 0.342	93.0	− 2 618
552	8	19 4.75	4	2.9693	0.0065	− 5 45 54.5	4	12.952	0.336	87.2	− 5 642
553	9.8	19 7.77	2	3.0340	0.0076	− 2 9 5.0	2	12.948	0.343	93.0	− 2 619
554	8	19 10.70	4	2.9847	0.0068	− 4 54 17.3	3	12.945	0.338	82.6; 81.8	− 4 587
555	8	19 22.06	2	2.9815	0.0067	− 5 4 47.5	2	12.933	0.338	83.6	− 5 644
556	8.9	3 20 13.04	1	+ 2.9864	+ 0.0068	− 4 47 42.5	1	+ 12.876	− 0.339	85.1	− 4 593
557	9.8	20 16.71	2	2.9996	0.0075	− 2 33 45.1	2	12.872	0.344	88.0	− 2 623
558	9	20 23.78	1	3.0325	0.0076	− 2 13 28.4	1	12.864	0.345	89.1	− 2 627
559	9	20 39.19	1	2.9664	0.0065	− 5 53 22.0	1	12.846	0.338	83.0	− 5 656
560	8	21 18.99	3	3.0087	0.0072	− 3 32 27.7	3	12.802	0.343	83.4	− 3 554
561	8.9	3 22 5.58	1	+ 3.0201	+ 0.0074	− 2 53 51.8	1	+ 12.750	− 0.345	84.0	− 2 633
562	9	22 14.91	1	3.0000	0.0070	− 4 0 31.7	1	12.738	0.343	88.0	− 4 602
563	8.9	22 23.64	2	2.9824	0.0068	− 4 58 44.7	2	12.729	0.342	82.1	− 5 668
564	8.9	22 24.22	2	2.9466	0.0062	− 6 56 32.2	2	12.728	0.338	84.0	− 7 603
565	8.9	23 13.66	2	2.9960	0.0070	− 4 12 44.6	2	12.673	0.344	83.1	− 4 604
566	9	3 23 28.60	1	+ 2.9639	+ 0.0065	− 5 58 12.6	1	+ 12.656	− 0.341	83.1	− 6 683
567	9.8	23 31.85	5	3.0332	0.0076	− 2 9 43.5	5	12.652	0.349	89.8	− 2 640
568	8	24 9.96	2	2.9765	0.0067	− 5 16 4.4	2	12.609	0.343	83.0	− 5 672
569	4.5	24 39.83	3	2.9723	0.0066	− 5 29 15.5	3	12.575	0.343	87.6	− 5 674
570	8	24 40.42	3	2.9870	0.0068	− 4 41 4.3	2	12.574	0.345	83.1; 82.1	− 4 609
571	8	3 25 1.77	1	+ 3.0239	+ 0.0074	− 2 39 29.4	1	+ 12.550	− 0.349	93.0	− 2 648
572	8	25 5.28	2	2.9620	0.0065	− 6 2 32.4	2	12.546	0.342	83.5	− 6 610
573	8.9	25 24.28	1	3.0120	0.0072	− 3 18 34.6	1	12.524	0.348	80.9	− 3 565
574	7	25 39.48	3	3.0009	0.0071	− 3 54 29.6	3	12.507	0.348	84.7	− 4 613
575	8.9	25 49.21	2	2.9537	0.0063	− 6 28 31.8	2	12.496	0.342	83.5	− 6 694
576	9	3 26 15.54	3	+ 3.0339	+ 0.0076	− 2 5 59.9	3	+ 12.466	− 0.352	89.7	− 2 649
577	8	26 21.94	3	2.9547	0.0064	− 6 24 18.1	1	12.459	0.343	83.4	− 6 695
578	8	26 24.46	2	3.0042	0.0071	− 3 43 13.4	2	12.456	0.349	82.0	− 3 570
579	8.9	26 26.06	5	2.9850	0.0068	− 4 45 58.5	3	12.454	0.346	84.3	− 4 618
580	9.8	26 37.27	5	3.0344	0.0076	− 2 4 29.4	2	12.441	0.352	88.4; 86.4	− 2 651
581	9.8	3 26 44.00	3	+ 2.9838	+ 0.0068	− 4 49 39.2	2	+ 12.434	− 0.347	85.7	− 4 619
582	8	27 7.99	2	3.0308	0.0075	− 2 15 58.9	2	12.406	0.352	87.0	− 2 652
583	8.9	27 35.75	2	2.9914	0.0083	− 4 23 52.4	2	12.374	0.349	83.1	− 4 622
584	8.9	27 56.90	1	3.0233	0.0074	− 2 39 54.3	1	12.350	0.353	93.0	− 2 655
585	8	28 22.16	2	2.9442	0.0062	− 6 55 29.1	2	12.321	0.344	83.9	− 7 627
586	8	3 28 23.76	4	+ 3.0054	+ 0.0071	− 3 37 47.9	3	+ 12.319	− 0.351	85.0	− 3 574
587	7.8	28 53.09	4	3.0019	0.0071	− 3 48 49.7	4	12.285	0.351	84.5	− 3 576
588	8.9	29 8.98	1	2.9742	0.0066	− 5 18 1.5	1	12.267	0.348	85.9	− 5 695
589	7	30 0.56	3	2.9698	0.0066	− 5 31 28.3	3	12.207	0.349	87.3	− 5 696
590	8.9	30 17.06	3	3.0358	0.0076	− 1 58 7.1	3	12.188	0.357	88.3	− 2 668
591	9.8	3 32 11.84	1	+ 3.0324	+ 0.0075	− 2 8 27.9	1	+ 12.055	− 0.358	88.1	− 2 675
592	8.9	32 14.51	1	3.0172	0.0073	− 2 57 15.8	1	12.052	0.357	84.0	− 3 588
593	9	32 19.69	2	3.0294	0.0075	− 2 18 0.6	2	12.046	0.358	88.5	− 2 676
594	8.9	32 30.59	1	3.0261	0.0074	− 2 28 26.0	1	12.033	0.358	90.0	− 2 679
595	8.9	32 34.03	1	2.9540	0.0064	− 6 18 55.2	1	12.029	0.350	83.1	− 6 712
596	7.6	3 32 49.41	4	+ 3.0339	+ 0.0076	− 1 55 8.0	3	+ 12.011	− 0.360	87.2; 84.9	− 1 516
597	6.7	33 5.59	3	2.9595	0.0064	− 6 0 44.4	3	11.992	0.351	83.4	− 6 713
598	6	33 37.80	4	3.0014	0.0070	− 3 46 55.3	4	11.954	0.357	87.0	− 3 591
599	8	33 39.81	3	3.0352	0.0075	− 1 58 57.6	1	11.952	0.360	88.3; 94.0	− 2 683
600	8.7	33 48.08	1	3.0289	0.0074	− 2 18 52.7	1	11.942	0.360	89.1	− 2 684

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
601	7.8	3	34	5.15	2	+3.0294	+0.0074	−2	17	11.8	1	+11.922	−0.360	84.0; 78.9	−2	686
602	6.7		34	15.75	2	3.0047	0.0070	−3	36	0.0	2	11.910	0.358	83.0	−3	592
603	7		34	41.69	3	3.0213	0.0073	−2	42	52.5	3	11.880	0.360	87.6	−2	690
604	5.6		34	41.91	3	2.9667	0.0065	−5	35	58.1	2	11.879	0.354	82.4	−5	715
605	8.9		34	47.51	2	2.9867	0.0068	−4	32	3.3	2	11.873	0.356	82.6	−4	647
606	8.9	3	35	13.51	1	+2.9651	+0.0065	−5	40	36.6	1	+11.842	−0.354	81.1	−5	718
607	9.8		35	21.25	2	2.9576	0.0064	−6	4	5.6	2	11.833	0.353	84.5	−6	725
608	8.9		35	36.03	3	2.9500	0.0063	−6	27	35.0	3	11.816	0.353	83.4	−6	726
609	8		35	39.87	3	3.0113	0.0072	−3	14	2.1	3	11.811	0.360	81.6	−3	597
610	7.8		36	45.98	2	2.9777	0.0067	−4	59	24.2	2	11.733	0.357	86.0	−5	724
611	7.8	3	37	18.89	3	+3.0259	+0.0074	−2	26	57.3	1	+11.694	−0.364	87.0; 89.1	−2	702
612	7.8		37	32.60	3	3.0256	0.0073	−2	27	34.3	2	11.678	0.364	87.0; 86.0	−2	703
613	9		37	43.34	1	3.0207	0.0073	−2	43	9.0	1	11.665	0.363	93.0	−2	704
614	8.9		37	56.14	2	2.9836	0.0067	−4	39	42.0	2	11.650	0.359	82.6	−4	655
615	8.9		38	2.92	4	3.0276	0.0074	−2	21	7.5	3	11.642	0.364	85.2; 83.9	−2	707
616	9.8	3	38	18.34	1	+2.9526	+0.0063	−6	16	19.2	1	+11.624	−0.356	83.1	−6	738
617	9		38	30.80	1	2.9985	0.0069	−3	52	36.5	1	11.609	0.362	88.0	−3	605
618	8		41	15.78	3	3.0019	0.0070	−3	40	0.2	3	11.412	0.365	87.0	−3	612
619	8.9		41	24.01	5	3.0210	0.0072	−2	40	22.3	4	11.402	0.367	87.4; 89.2	−2	717
620	8		41	42.81	1	3.0158	0.0072	−2	56	17.0	1	11.379	0.367	80.0	−3	614
621	8	3	41	50.36	2	+2.9719	+0.0066	−5	12	32.2	2	+11.370	−0.362	83.0	−5	749
622	7		41	57.39	3	3.0101	0.0071	−3	13	59.3	3	11.362	0.367	81.6	−3	616
623	8.9		42	20.16	4	3.0164	0.0074	−1	54	22.3	3	11.334	0.370	85.7; 88.0	−1	536
624	8		42	21.78	2	2.9375	0.0061	−6	58	9.8	2	11.332	0.358	83.9	−7	682
625	9.8		42	24.43	1	3.0242	0.0073	−2	29	55.9	1	11.329	0.369	89.1	−2	721
626	9	3	42	28.04	2	+3.0254	+0.0073	−2	26	4.8	1	+11.325	−0.369	88.5	−2	722
627	8		42	39.63	5	2.9862	0.0067	−4	47	26.7	4	11.311	0.364	84.2	−4	670
628	8		42	42.29	2	3.0184	0.0072	−2	47	53.3	2	11.308	0.368	85.0	−2	723
629	6		43	13.48	2	3.0372	0.0074	−1	49	11.6	1	11.270	0.371	85.4	−1	539
630	8.9		43	32.84	1	2.9777	0.0066	−4	53	12.2	1	11.247	0.364	80.1	−4	672
631	7	3	43	36.11	2	+3.0202	+0.0072	−2	41	41.5	1	+11.243	−0.370	87.0; 84.0	−2	726
632	9.8		43	56.91	3	3.0211	0.0072	−2	39	2.2	1	11.218	0.370	89.0; 93.0	−2	730
633	7.6		44	10.56	3	3.0358	0.0074	−1	53	20.5	2	11.201	0.372	88.0; 86.0	−1	544
634	8		44	19.19	2	2.9898	0.0068	−4	15	14.7	2	11.191	0.367	83.1	−4	674
635	8		44	23.81	2	2.9667	0.0065	−5	26	28.5	2	11.185	0.364	85.9	−5	758
636	8.9	3	44	43.96	1	+2.9756	+0.0066	−4	58	44.3	1	+11.161	−0.365	87.0	−5	762
637	9		45	7.44	1	2.9471	0.0062	−6	25	34.6	1	11.132	0.364	83.1	−6	759
638	8		45	21.83	1	3.0386	0.0074	−1	44	7.1	1	11.115	0.374	78.9	−1	548
639	9.8		45	33.54	1	3.0183	0.0071	−2	46	37.8	1	11.101	0.371	90.0	−2	738
640	8.9		46	6.27	3	2.9987	0.0069	−3	46	42.2	3	11.061	0.370	86.7	−3	625
641	7.8	3	46	8.30	3	+2.9952	+0.0068	−3	57	26.2	3	+11.058	−0.369	84.7	−4	682
642	6		46	34.36	1	2.9665	0.0065	−5	24	57.9	1	11.027	0.366	85.9	−5	768
643	8.9		46	34.94	2	3.0199	0.0072	−2	41	18.4	2	11.026	0.373	88.5	−2	742
644	6		46	46.09	3	2.9604	0.0064	−5	43	13.5	3	11.012	0.366	83.7	−5	769
645	8		47	1.71	2	2.9799	0.0066	−4	43	41.5	2	10.993	0.368	82.1	−4	684
646	9	3	47	4.48	1	+3.0295	+0.0073	−2	11	45.5	1	+10.990	−0.374	89.1	−2	745
647	8.9		47	8.29	2	3.0263	0.0072	−2	21	20.8	2	10.985	0.374	84.0	−2	747
648	8		47	15.07	1	3.0009	0.0069	−3	39	20.2	1	10.977	0.371	86.0	−3	629
649	7.6		47	15.76	2	2.9351	0.0061	−6	59	31.8	1	10.976	0.363	83.9	−7	695
650	8.9		48	14.50	1	2.9369	0.0061	−6	52	56.9	1	10.904	0.364	86.0	−6	778

№	Gr.	*A. R.* 1880.0			Zahl der Beob.	*Praec.*	*Var. saec.*	*Decl.* 1880.0			Zahl der Beob.	*Praec.*	*Var. saec.*	*Ep.* 1800 +	*B. D.*	
		h	m	s		s	s	°	'	"		"	"		°	
651	5	3	48	16.02	3	+ 3.0074	+ 0.0070	− 3	18	39.3	3	+ 10.902	− 0.373	83.4	− 3	631
652	8		48	34.40	3	2.9502	0.0063	− 6	12	25.2	3	10.880	0.366	83.4	− 6	779
653	8		48	36.05	1	2.9837	0.0067	− 4	30	49.4	1	10.878	0.370	85.1	− 4	689
654	9.8		48	46.61	5	2.9797	0.0066	− 4	42	46.4	4	10.865	0.370	84.1	− 4	690
655	9.8		48	52.96	1	3.0406	0.0074	− 1	37	7.9	1	10.857	0.378	94.0	− 1	558
656	8	3	49	12.88	2	+ 2.9674	+ 0.0064	− 5	19	50.4	2	+ 10.833	− 0.369	83.0	− 5	775
657	7.8		49	51.86	1	2.9762	0.0065	− 4	52	37.8	1	10.785	0.371	87.0	− 4	694
658	8.9		50	20.81	1	2.9636	0.0064	− 5	30	15.0	1	10.749	0.370	85.9	− 5	779
659	8		50	38.51	3	3.0345	0.0073	− 1	55	15.8	3	10.728	0.378	89.4	− 1	561
660	8.9		50	51.23	2	2.9541	0.0063	− 5	58	25.4	2	10.712	0.369	84.5	− 6	789
661	9.8	3	51	49.47	3	+ 3.0144	+ 0.0070	− 2	55	45.7	2	+ 10.640	− 0.377	88.6; 93.0	− 3	648
662	8.9		52	11.09	1	2.9511	0.0062	− 6	6	5.9	1	10.613	0.370	83.0	− 6	795
663	9.8		52	11.44	1	2.9682	0.0064	− 5	14	45.6	1	10.613	0.372	85.9	− 5	787
664	8		52	36.24	5	3.0129	0.0070	− 2	59	49.4	3	10.582	0.378	86.0; 81.3	− 3	650
665	7		52	40.96	4	2.9927	0.0067	− 4	0	36.0	4	10.576	0.375	84.0	− 4	706
666	6.7	3	52	57.63	3	+ 2.9567	+ 0.0063	− 5	48	29.7	3	+ 10.556	− 0.371	83.7	− 5	789
667	8.9		53	56.58	4	3.0363	0.0072	− 1	48	35.6	4	10.482	0.382	84.5	− 1	570
668	9.8		54	25.34	1	2.9378	0.0061	− 6	43	29.4	1	10.447	0.370	86.0	− 6	799
669	5.6		55	27.22	7	3.0346	0.0072	− 1	53	11.7	3	10.369	0.383	85.7; 83.6	− 1	572
670	8		56	12.38	4	3.0329	0.0071	− 1	58	2.8	3	10.313	0.384	87.5; 90.3	− 2	777
671	8.9	3	56	16.79	1	+ 2.9750	+ 0.0064	− 4	51	13.5	1	+ 10.308	− 0.377	80.1	− 4	722
672	8.9		56	18.77	3	2.9793	0.0065	− 4	38	19.9	3	10.305	0.377	83.4	− 4	723
673	8.9		56	20.31	1	2.9454	0.0061	− 6	18	56.7	1	10.303	0.373	83.0	− 6	805
674	9		56	47.27	1	2.9615	0.0063	− 5	30	46.5	1	10.269	0.375	85.9	− 5	803
675	8.9		57	15.58	4	3.0182	0.0069	− 2	41	46.0	4	10.234	0.383	87.2	− 2	782
676	8	3	58	4.68	2	+ 2.9434	+ 0.0061	− 6	23	1.4	2	+ 10.172	− 0.374	83.0	− 6	809
677	8.7		58	4.94	2	2.9733	0.0064	− 4	55	54.8	2	10.172	0.378	82.1	− 5	810
678	8		58	36.40	2	2.9408	0.0060	− 6	30	10.2	1	10.132	0.374	84.5; 86.0	− 6	811
679	8		58	45.21	1	2.9287	0.0059	− 7	5	29.9	1	10.121	0.373	81.9	− 7	734
680	7		58	51.17	3	3.0168	0.0069	− 2	45	21.5	1	10.114	0.384	88.6; 90.0	− 2	798
681	8	3	59	22.24	1	+ 2.9358	+ 0.0060	− 6	44	18.2	1	+ 10.075	− 0.375	86.0	− 6	814
682	8.9		59	56.56	3	2.9610	0.0062	− 5	29	38.1	3	10.031	0.378	84.0	− 5	822
683	8.9	4	1	19.60	3	3.0177	0.0068	− 2	41	29.9	3	9.926	0.387	81.3	− 2	814
684	8.9		1	30.74	2	3.0049	0.0067	− 3	19	10.1	2	9.912	0.385	82.0	− 3	685
685	7.6		1	35.72	2	2.9434	0.0060	− 6	19	50.6	2	9.906	0.377	82.1	− 6	822
686	8.9	4	1	59.74	2	+ 2.9807	+ 0.0066	− 4	30	21.0	2	+ 9.875	− 0.383	82.1	− 4	742
687	8		2	41.97	1	2.9684	0.0063	− 5	5	44.4	1	9.822	0.382	80.1	− 5	833
688	8.9		2	57.18	2	2.9734	0.0063	− 4	50	49.8	2	9.802	0.382	85.1	− 4	745
689	8.9		3	1.08	1	2.9426	0.0060	− 6	20	43.7	1	9.797	0.379	83.0	− 6	829
690	8.9		3	31.69	2	3.0315	0.0069	− 2	0	2.9	2	9.758	0.390	81.4	− 2	820
691	7	4	3	49.39	3	+ 2.9928	+ 0.0065	− 3	53	26.8	3	+ 9.726	− 0.386	83.4	− 3	696
692	6.5		4	31.35	1	2.9286	0.0058	− 7	14	18.1	1	9.682	0.378	81.9	− 7	758
693	7.8		4	47.68	3	2.9660	0.0062	− 5	11	6.3	3	9.661	0.388	83.4	− 5	841
694	9.8		4	53.01	2	3.0150	0.0067	− 2	48	11.0	2	9.655	0.390	89.5	− 2	826
695	8.9		5	9.98	2	2.9579	0.0061	− 5	34	55.4	2	9.633	0.382	83.5	− 5	843
696	8.9	4	5	27.74	2	+ 2.9992	+ 0.0066	− 3	34	5.6	2	+ 9.610	− 0.388	80.6	− 3	704
697	7		6	28.06	3	2.9752	0.0063	− 4	43	14.6	3	9.539	0.386	84.4	− 4	763
698	7.8		6	30.66	2	3.0143	0.0067	− 2	49	27.8	2	9.530	0.391	81.5	− 2	832
699	7		7	3.48	1	2.9342	0.0060	− 6	41	31.4	1	9.487	0.381	83.0	− 6	847
700	8.9		7	5.16	1	2.9772	0.0063	− 4	37	15.4	1	9.485	0.387	85.1	− 4	770

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		h	m	s		s	s	°	'	"		"	"		°	
701	8	4	7	13.56	3	+ 2.9860	+ 0.0063	− 4	11	33.3	3	+ 9.474	− 0.388	83.1	− 4	771
702	9.8		8	16.40	1	3.0145	0.0066	− 2	48	8.1	1	9.394	0.392	83.1	− 2	841
703	8		8	34.03	1	3.0219	0.0067	− 2	26	38.6	1	9.371	0.394	84.0	− 2	844
704	8.9		9	13.08	3	3.0005	0.0065	− 3	28	18.3	3	9.320	0.391	82.4	− 3	725
705	8.7		9	38.90	1	3.0127	0.0068	− 1	52	49.5	1	9.287	0.396	78.9	− 1	607
706	8.9	4	9	44.87	1	+ 2.9930	+ 0.0064	− 3	49	46.7	1	+ 9.279	− 0.391	83.1	− 3	727
707	8.9		10	32.82	2	3.0168	0.0066	− 2	40	34.0	2	9.217	0.395	86.5	− 2	848
708	8		10	41.76	1	2.9260	0.0057	− 7	1	34.1	1	9.206	0.382	86.0	− 7	785
709	9		10	45.18	1	3.0014	0.0064	− 3	25	15.7	1	9.201	0.393	84.0	− 3	732
710	7		11	27.19	1	2.9311	0.0058	− 6	46	5.6	1	9.147	0.384	83.0	− 6	862
711	8.9	4	12	16.27	3	+ 3.0162	+ 0.0066	− 2	41	49.9	3	+ 9.083	− 0.396	84.7	− 2	858
712	8.9		12	48.60	2	3.0100	0.0065	− 2	59	26.8	2	9.048	0.396	88.0	− 3	740
713	9		13	45.92	2	3.0270	0.0066	− 2	9	21.3	2	8.966	0.399	88.6	− 2	865
714	8		14	0.30	3	2.9734	0.0061	− 4	43	41.3	3	8.948	0.392	83.4	− 4	799
715	8		14	13.22	1	3.0113	0.0065	− 2	55	5.8	1	8.931	0.397	86.0	− 2	867
716	8	4	14	15.86	3	+ 2.9880	+ 0.0062	− 4	1	51.6	2	+ 8.927	− 0.394	81.1	− 4	801
717	9.8		14	24.34	2	3.0249	0.0066	− 2	16	8.0	2	8.916	0.399	89.0	− 2	869
718	6.7		14	45.30	2	2.9351	0.0058	− 6	31	59.4	1	8.889	0.388	83.6	− 6	875
719	9.8		14	57.35	3	3.0253	0.0066	− 2	14	42.6	1	8.873	0.399	86.0; 80.0	− 2	874
720	8		15	2.38	2	2.9883	0.0062	− 4	0	24.0	2	8.866	0.395	81.6	− 4	806
721	8	4	15	37.41	1	+ 2.9386	+ 0.0058	− 6	21	26.7	1	+ 8.821	− 0.389	83.0	− 6	878
722	7.6		15	45.03	2	2.9340	0.0057	− 6	34	9.5	1	8.811	0.388	83.6	− 6	879
723	7		16	13.59	2	2.9680	0.0060	− 4	57	40.8	2	8.773	0.393	83.1	− 5	889
724	8		16	39.69	2	2.9631	0.0059	− 5	11	17.9	2	8.739	0.393	82.1	− 5	891
725	8		16	39.97	3	3.0192	0.0065	− 2	31	38.2	2	8.738	0.400	84.7; 87.1	− 2	883
726	8.9	4	16	41.75	5	+ 3.0259	+ 0.0065	− 2	12	29.8	5	+ 8.736	− 0.401	86.8	− 2	884
727	8		17	19.19	2	2.9528	0.0059	− 5	17	14.0	1	8.687	0.393	82.1; 84.1	− 5	895
728	9.8		17	25.46	5	2.9927	0.0062	− 3	46	49.5	4	8.679	0.397	84.1; 85.1	− 3	759
729	8.9		17	39.61	2	2.9795	0.0061	− 4	24	3.3	2	8.660	0.396	81.6	− 4	816
730	5.6		17	42.40	3	2.9875	0.0061	− 4	1	24.3	3	8.656	0.397	81.1	− 4	808
731	9.8	4	18	19.73	1	+ 3.0130	+ 0.0064	− 2	48	43.8	1	+ 8.607	− 0.400	90.0	− 2	891
732	8.9		18	40.37	2	2.9634	0.0059	− 5	9	3.2	2	8.580	0.394	83.1	− 5	903
733	8		18	50.65	3	2.9460	0.0058	− 5	58	4.3	2	8.567	0.392	83.1	− 6	898
734	8		19	23.88	2	2.9538	0.0058	− 5	55	48.3	1	8.523	0.393	82.6; 84.1	− 5	906
735	8		19	27.42	2	2.9867	0.0061	− 4	2	46.5	1	8.518	0.398	80.1	− 4	827
736	8.7	4	19	38.73	5	+ 3.0193	+ 0.0064	− 2	30	29.4	5	+ 8.503	− 0.402	85.8	− 2	899
737	8		19	40.32	1	2.9586	0.0058	− 5	21	57.5	1	8.501	0.394	84.1	− 5	909
738	8.9		19	45.34	1	2.9663	0.0059	− 5	0	13.7	1	8.494	0.396	84.0	− 5	911
739	8.9		20	40.01	1	2.9867	0.0060	− 4	2	17.5	1	8.422	0.399	83.1	− 4	831
740	8.9		20	45.16	2	3.0300	0.0064	− 1	59	52.6	2	8.415	0.405	86.1	− 2	903
741	8	4	20	48.92	2	+ 2.9303	+ 0.0056	− 6	40	35.6	2	+ 8.410	− 0.392	83.6	− 6	906
742	8		20	49.71	1	2.9618	0.0058	− 5	12	19.2	1	8.409	0.396	80.1	− 5	917
743	8.9		20	55.46	2	2.9200	0.0055	− 7	9	16.4	2	8.402	0.390	89.0	− 7	813
744	8.9		20	59.50	5	3.0003	0.0062	− 3	23	45.1	4	8.396	0.401	86.5; 88.1	− 3	778
745	8		21	6.24	5	2.9989	0.0062	− 3	27	39.8	2	8.387	0.401	85.0; 82.0	− 3	780
746	8.9	4	21	21.58	1	+ 3.0238	+ 0.0064	− 2	17	14.3	1	+ 8.367	− 0.404	89.1	− 2	905
747	8.9		21	27.18	1	2.9422	0.0057	− 6	6	50.8	1	8.360	0.394	83.1	− 6	911
748	8		23	24.05	6	3.0153	0.0062	− 2	40	38.2	4	8.204	0.405	86.5; 85.5	− 2	915
749	8.9		23	25.15	3	2.9454	0.0056	− 5	56	29.3	3	8.203	0.396	82.8	− 5	928
750	8.9		23	26.45	3	2.9769	0.0059	− 4	28	17.2	3	8.201	0.400	84.8	− 4	850

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		h	m	s		s	s	°	′	″		″	″		°	
751	8	4	23	47.07	2	+ 2.0686	+ 0.0058	− 4	51	42.4	2	+ 8.174	− 0.399	83.1	− 4	851
752	8.9		23	58.26	4	3.0168	0.0062	− 2	36	16.2	2	8.159	0.405	89.0	− 2	920
753	8		24	31.68	4	3.0191	0.0062	− 2	29	31.7	3	8.114	0.406	86.0	− 2	923
754	9		24	53.56	1	2.9230	0.0054	− 6	57	38.7	1	8.085	0.394	83.0	− 7	828
755	8		25	6.44	2	2.9605	0.0057	− 5	13	20.8	2	8.068	0.399	82.1	− 5	941
756	8	4	25	17.61	3	+ 2.9627	+ 0.0057	− 5	7	5.2	1	+ 8.053	− 0.399	82.7; 84.0	− 5	942
757	9.8		26	2.12	3	3.0245	0.0062	− 2	14	2.2	3	7.994	0.408	86.8	− 2	930
758	8		26	2.34	2	2.9728	0.0058	− 4	38	27.0	2	7.992	0.401	83.6	− 4	861
759	8.9		26	14.58	1	2.9806	0.0058	− 4	16	49.6	1	7.977	0.402	83.1	− 4	862
760	5.6		26	37.36	5	2.9980	0.0060	− 3	27	57.5	5	7.946	0.405	86.5	− 3	809
761	8	4	27	35.54	2	+ 3.0276	+ 0.0062	− 2	5	10.2	2	+ 7.868	− 0.410	83.5	− 2	938
762	8		27	36.89	2	2.9813	0.0057	− 4	14	2.8	2	7.867	0.403	85.6	− 4	865
763	8.9		27	41.36	4	3.0142	0.0061	− 2	42	24.0	4	7.861	0.408	90.3	− 2	939
764	8		27	41.70	1	2.9160	0.0053	− 7	14	33.8	1	7.860	0.395	95.0	− 7	838
765	7		27	49.90	2	2.9526	0.0056	− 5	33	40.6	2	7.849	0.400	82.6	− 5	953
766	6	4	28	3.86	1	+ 2.9214	+ 0.0054	− 6	59	32.3	1	+ 7.830	− 0.396	83.0	− 7	839
767	8.9		28	15.08	1	2.9687	0.0059	− 4	48	39.2	1	7.816	0.402	84.0	− 4	867
768	7		28	23.43	2	3.9192	0.0053	− 7	5	25.9	1	7.804	0.396	83.6	− 7	841
769	8.9		28	32.05	3	3.0221	0.0061	− 2	20	2.1	2	7.793	0.409	83.7; 85.6	− 2	942
770	8		28	34.40	1	2.9506	0.0056	− 5	23	19.8	1	7.790	0.401	84.1	− 5	957
771	8.9	4	29	2.33	1	+ 2.9947	+ 0.0059	− 3	36	8.2	1	+ 7.752	− 0.406	83.1	− 3	824
772	9.8		29	12.77	1	2.9627	0.0056	− 5	4	56.7	1	7.738	0.402	80.1	− 5	962
773	8		29	25.26	2	2.9647	0.0056	− 4	59	2.0	1	7.721	0.402	81.6; 83.1	− 5	963
774	8.9?		29	29.29	1	2.9670	0.0056	− 4	52	41.6	1	7.716	0.403	86.0	− 4	875
775	8		29	59.50	2	3.0189	0.0060	− 2	28	39.6	2	7.675	0.410	88.0	− 2	952
776	7	4	30	2.63	3	+ 2.9890	+ 0.0058	− 3	51	32.1	3	+ 7.671	− 0.406	83.1	− 3	830
777	9.8		30	15.94	2	2.9906	0.0058	− 3	47	9.3	1	7.653	0.406	83.6	− 3	832
778	8		30	25.95	2	2.9726	0.0057	− 4	36	46.8	2	7.639	0.404	83.6	− 4	879
779	9.8		31	29.82	1	3.0122	0.0060	− 2	46	49.7	1	7.553	0.410	94.0	− 2	961
780	6		31	33.84	6	3.0136	0.0060	− 2	42	53.5	6	7.548	0.411	85.5	− 2	962
781	8	4	31	41.39	1	+ 3.0098	+ 0.0059	− 2	53	22.4	1	+ 7.538	− 0.410	86.0	− 2	964
782	8.9		32	32.75	2	2.9767	0.0056	− 4	24	32.8	2	7.468	0.406	87.1	− 4	889
783	8		33	9.87	3	2.9627	0.0055	− 5	2	46.3	3	7.418	0.405	82.4	− 5	981
784	9.8		33	13.52	3	2.9650	0.0055	− 4	56	14.4	3	7.413	0.405	83.7	− 4	895
785	8.9		33	44.10	1	2.9937	0.0057	− 3	37	6.2	1	7.371	0.409	83.1	− 3	855
786	8.9	4	33	54.53	2	+ 2.9780	+ 0.0056	− 4	20	14.1	2	+ 7.357	− 0.407	83.1	− 4	898
787	9.8		34	53.94	2	3.0248	0.0059	− 2	11	1.0	2	7.276	0.414	86.1	− 2	982
788	8		34	57.16	3	2.9906	0.0057	− 3	45	9.4	3	7.272	0.410	86.0	− 3	857
789	8.7		35	14.14	3	2.9197	0.0051	− 6	58	55.3	3	7.249	0.400	84.1	− 7	876
790	9.8		35	33.88	1	3.0139	0.0058	− 2	40	59.7	1	7.222	0.413	93.0	− 2	985
791	9.8	4	35	41.12	1	+ 3.0208	+ 0.0059	− 2	21	57.0	1	+ 7.212	− 0.414	83.1	− 2	988
792	8.9		36	1.13	3	2.9314	0.0052	− 6	26	33.5	3	7.185	0.402	84.1	− 6	963
793	7		36	47.23	3	2.9413	0.0052	− 5	59	13.0	3	7.122	0.404	83.4	− 6	969
794	8.9		36	55.08	1	2.9947	0.0056	− 3	33	9.9	1	7.112	0.411	83.1	− 3	864
795	8.9		36	56.00	3	2.9773	0.0055	− 4	20	52.6	3	7.110	0.409	85.8	− 4	922
796	8	4	37	15.13	2	+ 2.9254	+ 0.0051	− 6	41	56.0	2	+ 7.084	− 0.402	84.6	− 6	970
797	9		37	39.08	1	3.0212	0.0058	− 2	20	31.7	1	7.052	0.415	89.1	− 2	996
798	9.8		37	52.94	3	2.9732	0.0054	− 4	31	33.4	3	7.033	0.409	83.7	− 4	928
799	8		38	6.36	3	2.9981	0.0056	− 3	23	35.1	1	7.014	0.413	84.0; 86.0	− 3	869
800	8.9		38	35.82	2	2.9306	0.0051	− 6	27	0.4	2	6.974	0.404	84.1	− 6	979

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		h	m	s		s	s	°	′	″		″	″		°
801	8.9	4	38	38.06	1	+ 2.9786	+ 0.0054	− 4	16	27.6	1	+ 6.971	− 0.410	83.1	− 4 931
802	8.9		39	8.53	1	2.9342	0.0051	− 6	16	55.4	1	6.929	0.404	84.1	− 6 983
803	9.8		39	11.92	2	2.9999	0.0056	− 3	18	10.4	2	6.925	0.413	88.5	− 3 875
804	9		39	18.50	1	3.0089	0.0056	− 2	53	45.8	1	6.916	0.415	90.0	− 2 1004
805	4		39	30.09	1	2.9961	0.0055	− 3	28	34.4	1	6.900	0.413	83.1	− 3 876
806	8	4	39	49.00	4	+ 3.0037	+ 0.0056	− 3	7	46.0	3	+ 6.874	− 0.414	85.5	− 3 881
807	9.8		40	3.29	2	2.9250	0.0051	− 6	41	23.3	2	6.854	0.404	85.6	− 6 986
808	8		40	3.83	3	2.9778	0.0054	− 4	18	19.4	3	6.854	0.411	84.8	− 4 935
809	8.9		40	9.84	1	2.9134	0.0050	− 7	12	23.8	1	6.845	0.402	95.0	− 7 893
810	8.9		40	16.19	1	2.9862	0.0054	− 3	55	13.8	1	6.837	0.412	83.1	− 3 883
811	7	4	40	23.44	6	+ 3.0027	+ 0.0056	− 3	10	17.8	3	+ 6.827	− 0.415	85.7	− 3 884
812	9.8		40	25.03	1	3.0221	0.0057	− 2	17	16.5	1	6.824	0.417	89.1	− 2 1009
813	8		40	42.08	3	2.9911	0.0053	− 4	41	41.0	3	6.801	0.410	82.4	− 4 940
814	9.8		41	43.10	1	3.0109	0.0056	− 2	47	37.1	1	6.717	0.416	93.0	− 2 1016
815	6		42	40.62	3	2.9424	0.0051	− 5	52	46.3	3	6.638	0.408	83.1	− 5 1044
816	8.9	4	42	58.56	1	+ 2.9383	+ 0.0050	− 6	3	41.3	1	+ 6.614	− 0.407	84.1	− 6 994
817	9.8		43	7.65	1	2.9102	0.0049	− 7	19	15.7	1	6.601	0.404	95.0	− 7 905
818	7		43	18.41	2	2.9575	0.0052	− 5	11	53.0	2	6.586	0.410	82.1	− 5 1046
819	9		43	23.57	1	3.0120	0.0055	− 2	44	8.1	1	6.579	0.418	83.1	− 2 1028
820	8.9		43	23.87	4	2.9842	0.0053	− 3	59	32.1	3	6.579	0.414	84.4	− 4 949
821	8	4	43	51.09	6	+ 2.9255	+ 0.0049	− 6	37	33.6	6	+ 6.541	− 0.406	84.4	− 6 1000
822	8.9		43	53.17	4	3.0130	0.0055	− 2	41	12.2	3	6.538	0.418	88.8; 90.6	− 2 1032
823	8		44	15.74	2	2.9524	0.0051	− 5	25	11.8	2	6.507	0.410	86.5	− 5 1050
824	7		44	29.52	2	2.9823	0.0053	− 4	4	22.3	2	6.488	0.414	81.6	− 4 954
825	8.9		44	31.46	5	3.0031	0.0054	− 3	8	2.9	5	6.486	0.417	90.6	− 3 903
826	8	4	45	29.28	4	+ 2.9982	+ 0.0053	− 3	20	58.2	3	+ 6.406	− 0.417	85.1; 83.1	− 3 908
827	7		45	31.82	2	2.9867	0.0053	− 3	51	54.4	2	6.402	0.415	81.6	− 3 909
828	8		45	47.61	5	2.9485	0.0050	− 5	34	50.0	4	6.380	0.410	83.5	− 5 1061
829	8.9		46	16.16	4	3.0100	0.0054	− 2	49	0.3	4	6.341	0.419	84.0	− 2 1049
830	7		46	22.29	4	2.9975	0.0053	− 3	22	29.1	2	6.332	0.417	85.1; 87.1	− 3 917
831	8	4	46	51.92	1	+ 2.9504	+ 0.0050	− 5	29	13.1	1	+ 6.291	− 0.411	86.0	− 5 1067
832	8		46	54.32	3	2.9264	0.0049	− 6	33	35.7	2	6.288	0.408	84.4	− 6 1011
833	4.5		46	59.93	3	2.9466	0.0050	− 5	39	16.3	3	6.280	0.411	83.2	− 5 1068
834	8.9		47	16.60	3	3.0102	0.0053	− 2	48	6.8	2	6.257	0.420	87.4; 89.5	− 2 1053
835	8.9		47	25.52	2	2.9832	0.0052	− 4	0	55.3	2	6.245	0.416	81.6	− 4 966
836	8.9	4	47	25.86	2	+ 2.9264	+ 0.0048	− 6	33	14.4	1	+ 6.244	− 0.408	84.1; 85.2	− 6 1015
837	9.8		47	28.74	4	3.0286	0.0055	− 1	58	16.5	2	6.240	0.423	86.8; 83.1	− 2 1054
838	9		47	52.93	1	3.0181	0.0054	− 2	26	34.5	1	6.207	0.421	89.1	− 2 1057
839	8.9		48	8.18	5	3.0296	0.0054	− 1	55	22.9	2	6.186	0.423	86.8; 88.5	− 1 749
840	8.9		48	24.34	2	2.9210	0.0048	− 6	47	6.3	2	6.163	0.408	84.6	− 6 1019
841	7	4	48	28.10	3	+ 2.9962	+ 0.0052	− 3	25	23.5	3	+ 6.158	− 0.419	84.8	− 3 928
842	8.9		48	31.64	4	3.0281	0.0054	− 1	59	32.2	1	6.153	0.423	86.8; 88.1	− 2 1061
843	8		48	33.26	4	2.9472	0.0049	− 5	37	2.6	3	6.151	0.412	82.4	− 5 1079
844	9		48	41.21	1	3.0036	0.0052	− 3	5	28.0	1	6.140	0.420	90.0	− 3 930
845	9.8		49	3.20	2	3.0101	0.0053	− 2	47	50.8	2	6.109	0.421	86.0	− 2 1063
846	8	4	49	41.88	2	+ 2.9316	+ 0.0048	− 6	17	58.6	2	+ 6.056	− 0.410	84.0	− 6 1024
847	8.9		49	42.26	2	2.9241	0.0048	− 6	37	59.6	2	6.055	0.409	84.1	− 6 1025
848	9.8		49	43.14	2	3.0160	0.0053	− 2	31	52.8	2	6.054	0.422	89.1	− 2 1069
849	8.9		50	6.11	1	2.9807	0.0051	− 4	5	39.6	1	6.022	0.417	83.1	− 4 978
850	8		50	10.74	1	2.9492	0.0049	− 5	30	55.2	1	6.015	0.413	84.1	− 5 1088

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
851	6	4 50 29.63	2	+ 2.9526	+ 0.0049	— 5 21 44.7	1	+ 5.989	— 0.414	85.6; 80.1	— 5 1091
852	9.8	50 33.97	2	2.9526	0.0048	— 5 21 33.0	1	5.983	0.414	85.6; 91.1	— 5 1093
853	8	50 49.18	3	2.9613	0.0049	— 4 58 17.2	2	5.971	0.415	85.7	— 5 1095
854	8.9	51 15.40	2	2.9218	0.0046	— 6 43 18.7	2	5.925	0.410	84.1	— 6 1032
855	9	51 17.19	1	3.0053	0.0052	— 3 0 11.6	1	5.923	0.421	89.9	— 3 946
856	8.9	4 51 34.63	2	+ 2.9243	+ 0.0047	— 6 36 24.6	1	+ 5.899	— 0.410	83.6	— 6 1034
857	9	51 43.78	1	2.9960	0.0051	— 3 25 5.7	1	5.886	0.420	91.1	— 3 950
858	8.9	51 45.19	2	2.9394	0.0048	— 5 56 13.4	2	5.884	0.412	84.6	— 5 1102
859	8.9	51 51.78	2	2.9338	0.0047	— 6 11 3.4	2	5.875	0.412	82.1	— 6 1035
860	8	51 52.25	1	2.9641	0.0049	— 4 50 29.7	1	5.874	0.416	86.0	— 4 987
861	9.8	4 52 1.75	2	+ 2.9479	+ 0.0048	— 5 33 38.2	2	+ 5.861	— 0.414	86.5	— 5 1105
862	8	52 2.45	3	2.9314	0.0047	— 6 17 19.2	2	5.860	0.411	84.1	— 6 1038
863	7.6	52 8.42	2	3.0188	0.0052	— 2 24 0.6	2	5.851	0.424	81.1	— 2 1080
864	9	52 17.43	1	2.9506	0.0048	— 5 26 17.4	1	5.839	0.414	87.1	— 5 1109
865	7.8	52 27.27	2	2.9847	0.0050	— 3 55 12.5	2	5.835	0.419	81.6	— 3 953
866	8.9	4 52 34.25	3	+ 2.9692	+ 0.0049	— 4 36 39.0	3	+ 5.815	— 0.417	83.1	— 4 988
867	8	52 40.59	3	2.9662	0.0049	— 4 44 32.7	1	5.806	0.416	84.4	— 4 990
868	9	52 50.82	1	2.9275	0.0047	— 6 27 22.6	1	5.792	0.411	85.2	— 6 1040
869	8	53 3.26	4	3.0204	0.0052	— 2 19 15.2	2	5.775	0.424	86.0; 84.0	— 2 1083
870	8	53 21.42	3	2.9653	0.0048	— 4 46 42.9	1	5.750	0.417	85.7; 87.0	— 4 995
871	8	4 53 27.68	2	+ 2.9744	+ 0.0049	— 4 22 24.4	2	+ 5.741	— 0.418	81.6	— 4 996
872	9	53 48.19	1	3.0051	0.0051	— 3 0 17.5	1	5.712	0.423	90.0	— 3 963
873	8	53 50.44	3	2.9705	0.0049	— 4 32 38.9	2	5.709	0.418	83.1; 84.6	— 4 998
874	8.9	53 56.38	3	2.9526	0.0048	— 5 20 10.7	3	5.701	0.415	85.1	— 5 1114
875	9.8	54 1.11	4	3.0062	0.0051	— 2 57 12.8	3	5.694	0.423	87.0	— 2 1092
876	8.9	4 54 13.11	4	+ 3.0249	+ 0.0052	— 2 7 10.6	4	+ 5.677	— 0.426	87.3	— 2 1094
877	8	54 20.32	1	2.9266	0.0046	— 6 28 56.3	1	5.667	0.412	84.1	— 6 1051
878	8	54 28.06	2	2.9291	0.0046	— 6 22 19.4	3	5.656	0.412	84.4	— 6 1052
879	7	54 37.02	7	3.0232	0.0051	— 2 14 44.4	4	5.644	0.425	86.4; 89.6	— 2 1095
880	7	54 51.60	2	2.9398	0.0046	— 5 53 47.0	2	5.623	0.414	82.7	— 5 1123
881	9	4 54 52.24	1	+ 3.0141	+ 0.0052	— 2 35 49.4	1	+ 5.622	— 0.424	89.1	— 2 1098
882	9.8	55 34.85	3	2.9512	0.0047	— 5 23 18.2	3	5.563	0.416	84.4	— 5 1125
883	9	55 34.85	1	2.9439	0.0047	— 5 42 32.6	1	5.563	0.415	87.1	— 5 1126
884	8.9	55 37.23	2	3.0073	0.0050	— 2 53 49.8	2	5.560	0.424	84.6	— 2 1104
885	9.8	55 58.77	1	2.9020	0.0044	— 7 33 5.6	1	5.529	0.409	95.0	— 7 951
886	9.8	4 56 2.41	3	+ 3.0028	+ 0.0049	— 3 5 51.8	2	+ 5.524	— 0.423	88.7; 93.0	— 3 980
887	8	56 7.30	3	2.9446	0.0046	— 5 40 33.2	2	5.517	0.415	83.8; 82.1	— 5 1130
888	9	56 11.35	1	3.0298	0.0051	— 1 53 44.1	1	5.512	0.427	92.0	— 1 779
889	6	56 47.92	2	2.9738	0.0048	— 4 23 1.6	2	5.460	0.420	81.6	— 4 1019
890	9.8	56 51.00	2	2.9398	0.0046	— 5 52 51.9	1	5.456	0.415	84.6	— 5 1135
891	8	4 57 21.28	3	+ 3.0014	+ 0.0049	— 3 9 18.7	1	+ 5.413	— 0.424	81.7; 79.1	— 3 985
892	9	57 32.02	1	3.0141	0.0049	— 2 35 23.5	1	5.398	0.426	89.1	— 2 1109
893	7	57 40.98	3	3.0114	0.0049	— 2 42 37.7	3	5.386	0.425	84.7	— 2 1111
894	8.9	57 43.83	4	2.9525	0.0046	— 5 18 58.6	4	5.382	0.417	84.3	— 5 1138
895	8.9	57 46.14	1	2.9738	0.0047	— 4 22 32.6	1	5.379	0.420	83.1	— 4 1025
896	9.8	4 58 0.34	1	+ 2.9898	+ 0.0048	— 3 39 57.7	1	+ 5.359	— 0.423	83.1	— 3 992
897	8.9	58 0.51	4	3.0042	0.0049	— 3 1 41.6	4	5.358	0.425	90.2	— 3 991
898	9.8	58 17.63	4	2.9918	0.0048	— 3 34 26.5	1	5.334	0.423	85.4	— 3 993
899	9.8	58 20.00	2	3.0082	0.0049	— 2 50 53.6	2	5.331	0.425	93.0	— 2 1117
900	8.7	58 25.81	1	2.9323	0.0045	— 6 12 3.8	1	5.323	0.415	80.2	— 6 1075

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
901	6.7	4	58	54.40	3	+ 3.0000	+ 0.0048	− 3	12	29.2	2	+ 5.283	− 0.424	83.4; 85.6	− 3	998
902	8.9		58	59.88	2	2.9803	0.0047	− 4	4	52.4	2	5.275	0.421	81.6	− 4	1032
903	9.8		59	38.58	2	2.9923	0.0047	− 3	32	44.7	1	5.220	0.424	86.1	− 3	1002
904	9		59	49.37	2	3.0279	0.0049	− 1	58	22.2	2	5.205	0.429	93.0	− 1	799
905	8		59	56.80	3	2.9145	0.0044	− 6	58	3.9	3	5.195	0.413	88.1	− 7	970
906	8	5	0	13.76	2	+ 2.9900	+ 0.0047	− 3	38	57.3	1	+ 5.171	− 0.424	86.1	− 3	1010
907	8.9		0	28.13	4	2.9922	0.0047	− 3	32	50.4	1	5.151	0.424	86.1	− 3	1011
908	8		0	47.01	2	2.9670	0.0046	− 4	39	26.8	2	5.124	0.421	84.6	− 4	1042
909	6		0	49.75	4	2.9634	0.0046	− 4	49	3.6	4	5.120	0.420	86.3	− 4	1044
910	8		1	0.55	3	2.9518	0.0045	− 5	19	34.6	2	5.105	0.418	85.7	− 5	1155
911	8.9	5	1	12.68	5	+ 2.9897	+ 0.0047	− 3	39	27.8	2	+ 5.088	− 0.424	85.5; 84.6	− 3	1014
912	9.8		1	12.71	5	3.0184	0.0048	− 2	23	17.1	4	5.088	0.428	85.0; 84.0	− 2	1136
913	8.9		1	29.87	3	2.9939	0.0047	− 3	28	17.1	1	5.064	0.425	86.1	− 3	1017
914	8.9		1	54.47	1	3.0027	0.0047	− 3	4	51.7	1	5.029	0.426	94.0	− 3	1020
915	8		2	11.76	2	2.9277	0.0044	− 6	22	34.5	2	5.004	0.416	84.1	− 6	1090
916	9.8	5	2	15.02	2	+ 3.0087	+ 0.0047	− 2	48	43.2	2	+ 5.000	− 0.427	93.0	− 2	1143
917	9.8		2	19.03	3	3.0170	0.0048	− 2	26	51.2	3	4.994	0.428	87.4	− 2	1144
918	8.9		2	26.51	1	2.9819	0.0046	− 3	59	51.3	1	4.984	0.423	83.1	− 4	1054
919	8		2	31.51	2	3.0049	0.0047	− 2	58	56.1	2	4.977	0.427	83.0	− 3	1023
920	8		2	32.80	2	3.0007	0.0047	− 3	10	1.8	2	4.975	0.426	82.5	− 3	1024
921	8	5	2	38.56	1	+ 2.9940	+ 0.0046	− 3	27	45.5	1	+ 4.967	− 0.425	80.0	− 3	1025
922	6		2	46.82	2	2.9678	0.0045	− 4	36	49.5	2	4.955	0.422	84.6	− 4	1056
923	8		2	55.52	5	3.0071	0.0047	− 2	52	53.9	1	4.943	0.427	87.0; 83.1	− 2	1150
924	8		3	17.44	2	2.9221	0.0043	− 6	36	38.4	2	4.912	0.415	87.6	− 6	1094
925	7		3	26.89	3	3.0205	0.0047	− 2	17	22.2	3	4.898	0.429	83.4	− 2	1155
926	8.9	5	3	44.75	1	+ 2.9427	+ 0.0044	− 5	42	25.0	1	+ 4.873	− 0.418	91.1	− 5	1172
927	8.9		3	54.90	5	2.9436	0.0043	− 5	40	9.8	4	4.859	0.419	85.5; 84.1	− 5	1174
928	9.8		4	7.02	3	3.0269	0.0047	− 2	0	17.0	3	4.842	0.430	90.3	− 2	1158
929	8		4	11.83	4	2.9815	0.0045	− 4	0	20.0	4	4.835	0.424	89.1	− 4	1061
930	8.9		4	13.24	1	2.9080	0.0042	− 7	13	2.1	1	4.833	0.414	85.2	− 7	989
931	9.8	5	4	27.66	1	+ 2.9159	+ 0.0042	− 6	52	23.1	1	+ 4.812	− 0.415	85.2	− 6	1098
932	8.9		4	53.17	3	2.9514	0.0044	− 5	19	13.3	3	4.776	0.420	85.7	− 5	1178
933	9.8		4	53.52	4	3.0289	0.0047	− 1	54	55.6	2	4.776	0.431	92.0; 91.1	− 1	823
934	6.7		4	55.01	3	3.0142	0.0046	− 2	23	57.7	3	4.774	0.430	82.7	− 2	1161
935	8		5	16.64	3	2.9318	0.0043	− 6	10	22.1	3	4.743	0.417	85.1	− 6	1104
936	7.6	5	5	16.81	3	+ 3.0124	+ 0.0046	− 2	38	25.3	3	+ 4.743	− 0.429	84.7	− 2	1165
937	8.9		5	34.50	1	2.9873	0.0045	− 3	44	48.7	1	4.718	0.425	83.1	− 3	1034
938	8.9		6	27.04	2	3.0000	0.0045	− 3	11	1.2	1	4.643	0.428	86.0	− 3	1037
939	9		6	42.84	4	2.9628	0.0043	− 4	48	43.6	4	4.621	0.422	86.3	− 4	1068
940	7.6		6	56.08	6	2.9310	0.0042	− 6	12	4.8	5	4.602	0.418	85.5; 84.8	− 6	1109
941	9.8	5	6	58.17	1	+ 2.9830	+ 0.0044	− 3	55	45.7	1	+ 4.599	− 0.425	92.2	− 3	1039
942	8.9		7	8.09	2	3.0017	0.0045	− 3	6	21.2	2	4.585	0.428	83.0	− 3	1040
943	9.8		7	25.62	2	3.0093	0.0045	− 2	46	14.4	2	4.560	0.429	93.0	− 2	1176
944	9		7	31.82	1	2.9379	0.0042	− 5	53	40.7	1	4.551	0.419	87.1	− 5	1192
945	8		7	32.91	8	2.9631	0.0043	− 4	47	48.0	4	4.550	0.423	84.7; 83.1	− 4	1073
946	7	5	7	40.28	2	+ 2.9866	+ 0.0044	− 3	45	52.8	2	+ 4.539	− 0.426	84.6	− 3	1042
947	8		7	57.68	3	2.9149	0.0041	− 6	53	27.4	3	4.514	0.416	90.1	− 6	1112
948	9.8		8	2.97	1	2.9580	0.0042	− 5	0	57.6	1	4.507	0.422	86.2	− 5	1198
949	9.8		8	25.97	2	2.9492	0.0042	− 5	23	47.0	2	4.474	0.421	87.0	− 5	1201
950	8.9		9	19.37	2	2.9134	0.0040	− 6	56	42.2	2	4.398	0.416	84.6	− 6	1121

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec. s	Var saec. s	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec. "	Var. saec. "	Ep. 1800 +	B. D. °	
951	8	5	9	24.89	1	+ 2.9924	+ 0.0043	− 3	30	17.6	1	+ 4.390	− 0.428	80.0	− 3	1049
952	9		9	32.24	2	3.0091	0.0044	− 2	46	22.2	2	4.380	0.430	93.0	− 2	1193
953	8		9	49.16	7	2.9597	0.0042	− 4	56	5.4	7	4.356	0.428	85.8	− 4	1084
954	8.9		10	15.59	2	2.9898	0.0043	− 3	37	7.6	2	4.318	0.428	92.2	− 3	1051
955	8.9		10	20.57	1	3.0319	0.0045	− 1	46	35.0	1	4.311	0.434	94.1	− 1	841
956	8.9	5	10	53.88	1	+ 2.9515	+ 0.0041	− 5	17	3.6	1	+ 4.264	− 0.422	87.0	− 5	1209
957	9.8		10	59.70	4	2.9403	0.0041	− 5	46	11.7	4	4.255	0.421	88.1	− 5	1210
958	8.9		11	7.28	2	2.9103	0.0040	− 7	4	12.2	2	4.244	0.417	85.2	− 7	1024
959	8.9		11	8.43	7	3.0245	0.0044	− 2	5	44.5	7	4.243	0.433	87.6	− 2	1201
960	9.8		11	8.55	1	3.0104	0.0043	− 2	42	46.2	1	4.243	0.431	92.0	− 2	1200
961	9.8	5	11	32.11	1	+ 2.9441	+ 0.0041	− 5	36	6.1	1	+ 4.209	− 0.422	92.2	− 5	1213
962	4		11	40.82	5	2.9124	0.0039	− 6	58	30.9	3	4.188	0.417	88.1; 90.1	− 7	1028
963	9		11	53.54	1	3.0176	0.0043	− 2	23	48.2	1	4.179	0.432	89.1	− 2	1207
964	9		11	58.82	1	2.9666	0.0041	− 4	37	18.2	1	4.171	0.425	92.2	− 4	1091
965	9		12	15.01	3	2.9679	0.0041	− 4	33	58.2	2	4.148	0.425	88.2; 86.2	− 4	1095
966	9.8	5	12	22.84	4	+ 3.0114	+ 0.0043	− 2	39	52.0	4	+ 4.137	− 0.432	87.5	− 2	1208
967	8		12	32.63	4	2.9397	0.0040	− 5	47	13.8	3	4.123	0.421	87.1	− 5	1218
968	9		12	34.46	1	2.9637	0.0041	− 4	44	51.8	1	4.121	0.425	86.0	− 4	1097
969	8.9		12	42.44	1	2.9263	0.0040	− 6	22	8.6	1	4.109	0.420	83.0	− 6	1136
970	8		13	7.10	2	2.9990	0.0042	− 3	12	18.2	2	4.074	0.430	85.6	− 3	1061
971	9	5	13	12.32	3	+ 2.9558	+ 0.0040	− 5	5	9.8	3	+ 4.066	− 0.424	86.8	− 5	1219
972	8.9		13	30.48	3	2.9446	0.0040	− 5	34	20.5	2	4.040	0.422	86.8	− 5	1220
973	9.8		13	31.27	1	3.0164	0.0042	− 2	26	53.7	1	4.039	0.433	94.0	− 2	1214
974	9.8		13	34.46	4	2.9700	0.0041	− 4	28	0.2	4	4.035	0.426	87.1	− 4	1102
975	8		13	36.08	2	3.0348	0.0043	− 1	38	30.1	2	4.032	0.435	89.0	− 1	862
976	8	5	13	47.27	4	+ 2.9577	+ 0.0040	− 5	0	8.2	2	+ 4.016	− 0.424	85.8; 84.6	− 5	1221
977	9.8		14	1.78	3	2.9102	0.0038	− 7	3	24.1	3	3.996	0.418	86.8	− 7	1041
978	8		14	9.06	4	2.9500	0.0040	− 5	19	57.2	2	3.985	0.423	85.8	− 5	1223
979	8.9		14	15.33	5	2.9353	0.0039	− 5	58	9.6	2	3.976	0.421	87.1	− 6	1141
980	9.8		14	25.83	2	2.9891	0.0041	− 3	38	4.0	2	3.961	0.429	87.6	− 3	1065
981	9.8	5	14	31.30	2	+ 2.9422	+ 0.0039	− 5	40	10.8	2	+ 3.953	− 0.422	92.2	− 5	1224
982	7.8		14	32.66	4	2.9463	0.0039	− 5	29	29.2	2	3.951	0.423	87.3	− 5	1225
983	9		14	38.87	3	2.9482	0.0040	− 5	24	40.9	3	3.942	0.423	86.7	− 5	1227
984	8.9		14	45.03	5	2.9358	0.0039	− 5	56	41.0	2	3.934	0.422	87.1; 85.1	− 5	1228
985	9		15	0.44	3	2.9574	0.0040	− 5	0	41.1	2	3.912	0.425	86.8	− 5	1230
986	8	5	15	10.89	4	+ 3.0040	+ 0.0041	− 2	58	55.3	3	+ 3.897	− 0.431	85.3; 83.7	− 3	1070
987	9.8		15	21.01	1	3.0085	0.0041	− 2	47	12.5	1	3.882	0.431	93.0	− 2	1221
988	8		15	25.33	6	2.9361	0.0039	− 5	55	53.2	2	3.876	0.422	87.1; 89.1	− 5	1231
989	8.9		15	37.07	11	3.0226	0.0042	− 2	10	18.7	10	3.859	0.434	86.6	− 2	1222
990	9		15	49.15	2	2.9577	0.0039	− 4	59	35.7	1	3.842	0.425	87.1	− 5	1235
991	8	5	15	57.84	5	+ 3.0016	+ 0.0041	− 3	5	0.0	4	+ 3.830	− 0.431	85.4	− 3	1075
992	9.8		16	55.07	1	3.0203	0.0041	− 2	16	1.1	1	3.748	0.434	94.0	− 2	1225
993	8.9		17	4.65	3	3.0024	0.0040	− 3	2	56.0	2	3.734	0.432	85.1; 87.6	− 3	1081
994	9.8		17	18.87	1	3.0175	0.0041	− 2	23	23.4	1	3.714	0.434	94.1	− 2	1230
995	8.9		17	54.74	4	2.9647	0.0039	− 4	40	55.4	4	3.662	0.427	86.1	− 4	1113
996	9.8	5	17	56.50	2	+ 2.9122	+ 0.0037	− 6	56	52.9	2	+ 3.660	− 0.419	87.6	− 6	1163
997	9.8		18	3.54	3	2.9343	0.0038	− 5	59	46.8	3	3.649	0.422	84.4	− 6	1165
998	9.8		18	26.54	2	2.9127	0.0037	− 6	55	14.9	1	3.616	0.419	93.1; 95.0	− 6	1166
999	8.7		18	38.75	5	3.0124	0.0040	− 2	36	32.6	3	3.599	0.434	88.4; 87.4	− 2	1237
1000	9		18	52.20	5	2.9420	0.0038	− 5	39	38.5	4	3.580	0.424	89.1	− 5	1244

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
1001	8	5 19 0.49	2	+ 3.0051	+ 0.0040	− 2 55 33.7	2	+ 3.568	− 0.433	82.1	− 2 1241
1002	8.9	19 6.03	6	3.0134	0.0040	− 2 33 47.2	2	3.560	0.433	87.1; 89.1	− 2 1242
1003	8	19 32.07	1	3.0356	0.0040	− 1 35 54.9	1	3.522	0.437	84.0	− 1 889
1004	8.9	19 40.22	8	3.0230	0.0040	− 2 8 54.8	8	3.511	0.436	89.1	− 2 1245
1005	9.8	19 41.06	3	2.9510	0.0038	− 5 15 55.6	3	3.510	0.425	85.4	− 5 1245
1006	9.8	5 19 53.79	2	+ 3.0162	+ 0.0039	− 2 26 34.0	2	+ 3.491	− 0.435	89.6	− 2 1246
1007	9.8	19 56.41	2	2.9400	0.0037	− 5 44 24.8	1	3.487	0.424	87.1	− 5 1246
1008	9	20 1.48	1	2.9594	0.0038	− 4 54 11.5	1	3.480	0.426	84.0	− 4 1123
1009	8	20 3.19	1	2.9230	0.0036	− 6 28 7.2	1	3.478	0.421	83.1	− 6 1175
1010	8.9	20 4.40	3	2.9317	0.0037	− 6 5 52.2	3	3.476	0.422	85.8	− 6 1176
1011	8.7	5 20 9.01	4	+ 2.9426	+ 0.0037	− 5 37 30.8	2	+ 3.469	− 0.424	89.1; 91.1	− 5 1247
1012	9.8	20 10.41	2	2.9090	0.0036	− 7 4 12.2	2	3.467	0.419	84.6	− 7 1075
1013	9.8	20 34.71	1	2.9630	0.0037	− 4 44 41.6	1	3.432	0.427	83.1	− 4 1126
1014	9	20 35.79	3	2.9397	0.0037	− 5 45 4.5	1	3.431	0.424	87.1	− 5 1251
1015	9	20 42.33	3	2.9721	0.0038	− 4 21 8.3	2	3.422	0.428	85.5	− 4 1128
1016	8	5 20 51.98	2	+ 2.9198	+ 0.0036	− 6 36 12.8	2	+ 3.408	− 0.421	84.1	− 6 1180
1017	8	20 57.07	3	3.0156	0.0039	− 2 27 56.8	3	3.400	0.435	86.4; 82.6	− 2 1250
1018	9.8	21 1.74	5	2.9709	0.0038	− 4 24 15.2	3	3.394	0.428	88.7	− 4 1132
1019	9	21 14.75	2	2.9552	0.0037	− 5 4 47.8	2	3.375	0.426	87.1	− 5 1256
1020	9	21 24.14	5	2.9713	0.0037	− 4 22 57.1	3	3.361	0.429	89.3	− 4 1134
1021	8.9	5 21 41.02	1	+ 3.0282	+ 0.0039	− 1 54 56.2	1	+ 3.337	− 0.437	85.1	− 1 901
1022	8	21 43.09	3	3.0206	0.0039	− 2 14 53.2	3	3.334	0.436	90.4	− 2 1254
1023	8.9	21 44.89	5	2.9487	0.0037	− 5 21 30.0	4	3.332	0.425	87.1	− 5 1259
1024	9.8	21 47.41	1	2.9109	0.0036	− 6 58 45.6	1	3.328	0.420	84.1	− 7 1083
1025	8.9	22 6.73	2	3.0291	0.0039	− 1 52 21.5	1	3.300	0.437	87.1; 89.1	− 1 906
1026	9.8	5 22 6.87	2	+ 3.0131	+ 0.0038	− 2 34 24.9	2	+ 3.300	− 0.435	93.0	− 2 1257
1027	9.8	22 9.47	1	3.0249	0.0039	− 2 2 35.1	1	3.296	0.437	94.0	− 2 1258
1028	8	22 29.43	5	2.9899	0.0037	− 3 34 30.0	4	3.268	0.432	85.5	− 3 1110
1029	8	22 37.63	3	2.9616	0.0037	− 4 47 48.3	3	3.256	0.428	85.1	− 4 1141
1030	9.8	22 38.84	1	2.9955	0.0037	− 3 20 8.4	1	3.254	0.432	86.0	− 3 1111
1031	9	5 22 40.31	2	+ 2.9737	+ 0.0037	− 4 16 32.3	2	+ 3.252	− 0.429	84.6	− 4 1143
1032	8.9	22 42.83	4	2.9462	0.0036	− 5 27 36.0	3	3.248	0.425	88.3; 87.4	− 5 1264
1033	7	22 57.42	2	2.9938	0.0037	− 3 24 21.6	1	3.227	0.432	86.0	− 3 1115
1034	8	23 0.76	1	3.0061	0.0037	− 2 52 29.5	1	3.222	0.434	79.1	− 2 1263
1035	8	23 13.32	6	2.9443	0.0036	− 5 32 32.5	3	3.204	0.426	87.1	− 5 1268
1036	8.9	5 23 16.44	6	+ 2.9362	+ 0.0036	− 5 53 22.0	6	+ 3.200	− 0.424	89.9	− 5 1269
1037	9.8	23 18.22	1	3.0238	0.0038	− 2 6 24.4	1	3.197	0.437	88.2	− 2 1266
1038	7	23 24.76	5	2.9906	0.0037	− 3 32 38.2	2	3.188	0.432	85.5; 84.1	− 3 1116
1039	9.8	23 53.31	1	3.0180	0.0038	− 2 21 5.1	1	3.147	0.436	92.0	− 2 1268
1040	9	24 0.79	1	2.9562	0.0036	− 5 1 41.1	1	3.136	0.427	87.0	− 5 1273
1041	9.8	5 24 16.28	1	+ 2.9499	+ 0.0036	− 5 17 53.1	1	+ 3.114	− 0.426	92.2	− 5 1274
1042	9.8	24 18.01	3	3.0170	0.0037	− 2 23 55.6	1	3.111	0.436	92.3	− 2 1271
1043	8.9	24 22.52	1	2.9940	0.0037	− 3 23 40.8	1	3.105	0.433	86.0	− 3 1117
1044	8	24 24.22	4	2.9316	0.0035	− 6 4 57.1	4	3.102	0.424	86.1	− 6 1200
1045	8.9	24 34.85	1	2.9264	0.0035	− 6 18 12.2	1	3.087	0.423	83.2	− 6 1201
1046	8.9	5 24 47.34	6	+ 3.0156	+ 0.0037	− 2 27 37.1	4	+ 3.069	− 0.436	90.7	− 2 1274
1047	9.8	24 54.96	1	3.0079	0.0037	− 2 47 31.1	1	3.058	0.434	93.0	− 2 1275
1048	8.9	24 56.16	5	2.9719	0.0036	− 4 20 53.8	5	3.056	0.430	87.9	− 4 1152
1049	8.9	25 8.73	2	2.9268	0.0035	− 6 17 4.8	1	3.038	0.423	85.2; 87.2	− 6 1204
1050	8.9	25 10.77	3	2.9591	0.0035	− 4 53 58.6	3	3.035	0.428	85.4	− 4 1155

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
1051	8.9	5 25 17.74	2	+ 3.0245	+ 0.0037	− 2 4 24.6	2	+ 3.025	− 0.437	91.1	− 2 1278
1052	8.9	25 22.78	1	2.9868	0.0035	− 3 42 10.5	1	3.018	0.428	86.0	− 3 1123
1053	9	25 25.76	1	2.9382	0.0035	− 5 47 43.9	1	3.014	0.425	87.1	− 5 1281
1054	7	25 31.00	2	2.9147	0.0034	− 6 48 0.7	2	3.006	0.422	83.6	− 6 1207
1055	8.9	25 39.44	2	3 0269	0.0037	− 1 58 7.6	1	2.994	0.438	91.5; 89.1	− 1 929
1056	7	5 25 44.01	2	+ 2.9959	+ 0.0036	− 3 18 29.1	2	+ 2.987	− 0.433	82.6	− 3 1126
1057	8.9	25 52.45	2	2.9067	0.0034	− 7 8 21.6	2	2.975	0.420	84.6	− 7 1113
1058	8.9	26 16.78	1	2.9738	0.0035	− 4 15 39.6	1	2.940	0.430	86.2	− 4 1160
1059	8.9	26 17.05	2	2.9148	0.0034	− 6 47 54.7	1	2.940	0.422	89.6; 95.0	− 6 1209
1060	9.8	26 18.42	2	2.9704	0.0035	− 4 24 35.0	1	2.938	0.430	83.1	− 4 1161
1061	9.8	5 26 18.76	3	+ 2.9658	+ 0.0035	− 4 36 28.1	1	+ 2.937	− 0.429	88.8; 87.1	− 4 1162
1062	9.8	26 31.14	5	2.9644	0.0035	− 4 39 47.2	2	2.919	0.429	89.1	− 4 1163
1063	8.9	26 38.72	2	3.0233	0.0036	− 2 7 28.1	2	2.908	0.437	85.1	− 2 1285
1064	8.9	26 47.26	1	3.0196	0.0036	− 2 17 4.7	1	2.896	0.437	85 2	− 2 1286
1065	9.8	26 51.84	1	2.9555	0.0034	− 5 2 55.2	1	2.889	0.428	87.0	− 5 1285
1066	8.9	5 27 1.17	7	+ 2.9646	+ 0.0035	− 4 39 15.7	3	+ 2.876	− 0.429	87.8	− 4 1164
1067	8.9	27 1.66	1	2.9194	0.0034	− 6 35 40.5	1	2.875	0.423	84.1	− 6 1217
1068	8.9	27 13.76	3	2.9466	0.0034	− 5 25 40.4	3	2.858	0.427	84.8	− 5 1289
1069	9.8	27 18.41	7	2.9631	0.0035	− 4 43 15.5	2	2.851	0.429	87.8; 84.6	− 4 1165
1070	9.8	27 21.06	4	2.9696	0.0035	− 4 26 22.2	4	2.847	0.430	86.4	− 4 1166
1071	8.7	5 27 38.70	3	+ 2.9902	+ 0.0035	− 3 32 55.5	2	+ 2.822	− 0.433	84.7	− 3 1136
1072	9.8	27 42.25	1	2.9867	0.0035	− 3 42 13.2	1	2.816	0.433	83.1	− 3 1137
1073	9.8	28 2.09	5	2.9404	0.0034	− 5 41 22.6	2	2.788	0.426	90.3; 91.1	− 5 1295
1074	8	28 6.44	6	3.0264	0.0036	− 1 59 10.5	4	2.782	0.438	89.9	− 2 1294
1075	9.8	28 11.48	1	2.9908	0.0035	− 3 31 32.6	1	2.774	0.433	86.0	− 3 1139
1076	8	5 28 13 52	2	+ 2.9073	+ 0.0033	− 7 6 23.0	2	+ 2.771	− 0.421	84.6	− 7 1119
1077	7	28 14.20	2	3.0037	0.0035	− 2 57 53.8	2	2.770	0.435	82.1	− 2 1295
1078	8.9	28 15.70	9	3.0152	0.0035	− 2 28 9.3	5	2.768	0.437	87.4	− 2 1296
1079	7	28 28.70	3	2.9591	0.0034	− 4 53 15.2	1	2.749	0.429	86.1	− 4 1167
1080	8.9	28 30.59	1	3.0301	0.0036	− 1 49 34.0	1	2.747	0.439	90.1	—
1081	9	5 28 40.77	2	+ 2.9379	+ 0.0033	− 5 47 51.9	1	+ 2.732	− 0.426	87.1	− 5 1301
1082	9	28 41.90	1	2.9384	0.0033	− 5 46 28.1	1	2.730	0.426	87.1	− 5 1303
1083	8.9	28 42.20	2	2.9853	0.0034	− 3 45 42.7	1	2.730	0.432	84.6; 86.0	− 3 1141
1084	8.7	28 46.76	5	2.9687	0.0034	− 4 28 29.1	3	2.723	0.430	87.3	− 4 1172
1085	8	28 53.87	5	2.9412	0.0033	− 5 39 8.0	2	2.713	0.426	89.7; 87.6	− 5 1305
1086	7	5 28 56.72	1	+ 2.9752	+ 0.0034	− 4 11 33.1	1	+ 2.709	− 0.431	86.0	− 4 1173
1087	8.9	28 57.15	2	2.9311	0.0033	− 6 5 16.4	1	2.708	0.425	87.2	− 6 1231
1088	8	28 59.47	1	2.9031	0.0032	− 7 16 53.1	1	2.705	0.421	84.1	− 7 1124
1089	7.8	28 59.72	1	2.9312	0.0033	− 6 4 50.2	1	2.705	0.425	83.1	− 6 1231
1090	8.9	29 1.84	3	2.9427	0.0033	− 5 35 16.6	1	2.702	0.426	91.1	− 5 1308
1091	8.9	5 29 2.54	3	+ 2.9696	+ 0.0034	− 4 26 12.2	1	+ 2.700	− 0.430	87.1; 86.2	− 4 1176
1092	8	29 9.19	3	2.9310	0.0033	− 6 5 25.5	2	2.691	0.425	87.1	− 6 1233
1093	8.9	29 11.80	8	3.0154	0.0035	− 2 27 45.8	2	2.687	0.437	86.8; 88.6	− 2 1305
1094	8.9	29 11.86	3	3.0265	0.0035	− 1 58 54.5	1	2.687	0.438	86.8; 80.2	− 2 1303
1095	9	29 17.52	2	2.9640	0.0034	− 4 40 36.0	2	2.679	0.429	87.1	− 4 1180
1096	8.9	5 29 21.71	4	+ 2.9652	+ 0.0033	− 5 54 26.1	3	+ 2.673	− 0.425	87.1	− 5 1314
1097	6.7	29 25.94	6	2.9679	0.0034	− 4 30 18.3	2	2.667	0.430	88.8; 89.6	− 4 1184
1098	6	29 28.04	5	2.9583	0.0033	− 4 55 5.9	3	2.664	0.429	86.2	− 4 1185
1099	8	29 29.37	4	3.0278	0.0035	− 1 55 36.9	2	2.662	0.439	86.4; 87.6	− 1 961
1100	5	29 29.45	3	2.9448	0.0033	− 5 29 47.2	2	2.662	0.427	88.7	− 5 1319

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1101	7	5 29 34.59	6	+ 2.9694	+ 0.0034	− 4 26 38.2	1	+ 2.654	− 0.430	88.8; 86.2	− 4 1186
1102	8	29 36.44	3	2.9952	0.0034	− 3 19 59.5	1	2.652	0.434	83.7; 80.0	− 3 1146
1103	8	29 37.25	1	2.9983	0.0033	− 5 20 52.4	1	2.650	0.427	84.1	− 5 1325
1104	9	29 37.62	1	2.9447	0.0033	− 5 30 5.5	1	2.660	0.427	87.0	− 5 1326
1105	8	29 38.12	3	2.9583	0.0033	− 4 55 7.8	1	2.649	0.429	86.1	− 4 1187
1106	9.8	5 29 40.46	2	+ 2.9937	+ 0.0034	− 3 23 46.3	2	+ 2.646	− 0.434	85.6	− 3 1148
1107	7.8	29 44.33	5	2.9571	0.0033	− 4 58 8.4	1	2.640	0.429	86.2	− 4 1188
1108	8.9	29 44.60	7	3.0156	0.0035	− 2 27 12.3	2	2.640	0.437	88.0; 85.2	− 2 1307
1109	8	29 55.42	2	3.0297	0.0035	− 1 50 34.1	1	2.624	0.439	90.1	− 1 968
1110	8.9	30 8.06	2	2.9248	0.0032	− 6 21 12.4	2	2.606	0.424	83.6	− 6 1247
1111	8.7	5 30 9.97	6	+ 2.9680	+ 0.0033	− 4 30 11.4	2	+ 2.603	− 0.430	87.8; 86.2	− 4 1190
1112	8.9	30 13.69	1	3.0327	0.0035	− 1 42 46.3	1	2.598	0.440	90.1	− 1 971
1113	7	30 21.93	2	2.9394	0.0033	− 5 43 38.7	1	2.586	0.426	85.6; 84.1	− 5 1334
1114	8.9	30 27.54	4	3.0246	0.0034	− 2 3 41.0	4	2.578	0.439	88.6	− 2 1311
1115	8.9	30 36.87	2	2.9366	0.0033	− 5 50 50.8	1	2.564	0.426	87.1	− 5 1336
1116	8.9	5 30 56.42	2	+ 2.9057	+ 0.0032	− 7 9 45.7	2	+ 2.536	− 0.422	84.6	− 7 1132
1117	8.9	31 20.20	1	3.0091	0.0034	− 2 9 25.9	1	2.502	0.438	89.1	− 2 1316
1118	7	31 35.12	1	2.9326	0.0032	− 6 0 39.8	1	2.480	0.425	87.1	− 6 1262
1119	8	31 38.75	2	3.0140	0.0034	− 2 31 1.0	2	2.475	0.437	85.2	− 2 1319
1120	7.8	31 41.94	4	2.9561	0.0032	− 5 0 27.0	3	2.470	0.429	86.1	− 5 1342
1121	7.6	5 31 58.14	4	+ 2.9589	+ 0.0032	− 4 53 16.9	1	+ 2.447	− 0.429	86.1; 87.0	− 4 1196
1122	9.8	32 1.02	2	2.9142	0.0031	− 6 47 44.3	2	2.442	0.423	89.6	− 6 1267
1123	7.8	32 17.94	1	2.9754	0.0032	− 4 10 47.2	1	2.418	0.432	86.0	− 4 1198
1124	9	32 20.06	2	2.9882	0.0033	− 3 37 36.0	2	2.415	0.433	84.1	− 3 1162
1125	9.8	32 28.12	1	2.9280	0.0032	− 6 12 15.8	1	2.403	0.425	87.1	− 6 1271
1126	5.4	5 32 43.38	2	+ 3.0104	+ 0.0033	− 2 40 12.2	2	+ 2.381	− 0.437	89.1	− 2 1326
1127	7	32 47.67	2	2.9177	0.0031	− 6 38 43.0	2	2.375	0.424	83.6	− 6 1275
1128	9.8	33 3.28	4	3.0241	0.0033	− 2 4 18.9	3	2.352	0.439	88.2; 91.0	− 2 1329
1129	6	33 4.71	3	2.9027	0.0031	− 7 16 51.1	3	2.350	0.421	84.4	− 7 1142
1130	8	33 8.19	2	2.9504	0.0032	− 5 15 49.7	2	2.345	0.428	85.1	− 5 1351
1131	8.9	5 33 13.35	4	+ 2.9336	+ 0.0031	− 5 58 0.0	4	+ 2.338	− 0.426	89.1	− 5 1353
1132	8.9	33 13.48	5	3.0121	0.0033	− 2 35 46.4	4	2.338	0.437	88.5; 89.3	− 2 1330
1133	8.9	33 21.34	3	2.9619	0.0032	− 4 45 15.1	3	2.326	0.430	88.5	− 4 1203
1134	7	33 32.47	5	2.9880	0.0032	− 3 37 59.5	5	2.310	0.434	85.9	− 3 1166
1135	9	33 48.90	1	2.9532	0.0031	− 5 7 40.4	1	2.286	0.429	86.2	− 5 1355
1136	8.9	5 33 53.24	5	+ 3.0261	+ 0.0033	− 1 59 36.8	2	+ 2.280	− 0.440	87.5; 85.1	− 2 1333
1137	8.9	33 56.17	1	2.9934	0.0032	− 3 23 54.2	1	2.276	0.435	85.2	− 3 1167
1138	9	34 7.00	2	2.9130	0.0031	− 6 50 31.4	1	2.260	0.423	83.6	− 6 1281
1139	8.9	34 18.42	2	3.0143	0.0032	− 2 30 7.7	2	2.244	0.438	82.6	− 2 1336
1140	8	34 28.96	4	2.9681	0.0031	− 4 29 12.2	4	2.228	0.431	88.4	− 4 1210
1141	2.3	5 34 42.22	6	+ 3.0258	+ 0.0032	− 2 0 26.2	2	+ 2.209	− 0.440	87.9; 89.1	− 2 1338
1142	8	34 59.70	1	2.9816	0.0031	− 3 54 25.0	1	2.184	0.433	86.0	− 3 1270
1143	8	35 1.09	3	3.0078	0.0031	− 2 46 54.0	2	2.182	0.437	85.2	− 2 1344
1144	8	35 9.61	2	2.9865	0.0031	− 3 41 44.6	2	2.169	0.434	84.6	− 3 1171
1145	9	35 11.58	1	2.9553	0.0031	− 5 2 2.0	1	2.166	0.429	87.1	− 5 1361
1146	8	5 35 33.26	3	+ 2.9092	+ 0.0030	− 6 59 53.9	3	+ 2.135	− 0.423	88.1	− 7 1151
1147	8	35 36.08	2	3.0184	0.0032	− 2 19 16.8	2	2.131	0.439	89.1	− 2 1345
1148	9	35 37.89	3	2.9131	0.0030	− 6 49 53.4	3	2.128	0.423	86.2	− 6 1286
1149	8.9	35 51.83	3	3.0059	0.0031	− 2 51 37.2	1	2.108	0.437	85.2	− 2 1348
1150	8.9	36 50.42	7	2.9631	0.0030	− 4 41 43.5	6	2.023	0.431	88.7; 88.0	− 4 1223

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1151	9.8	5 36 58.48	2	+ 3.0173	+ 0.0031	− 2 22 16.2	2	+ 2.011	− 0.439	89.6	− 2 1350
1152	7	37 4.16	3	2.9124	0.0030	− 6 51 18.3	2	2.003	0.424	83.5	− 6 1293
1153	9	37 12.84	2	2.9357	0.0030	− 5 51 56.0	2	1.991	0.427	87.1	− 5 1369
1154	9	37 17.29	3	2.9547	0.0030	− 5 3 18.2	2	1.984	0.430	85.7	− 5 1370
1155	9	37 42.53	1	2.9557	0.0030	− 5 0 36.3	1	1.948	0.430	87.1	− 5 1371
1156	8.9	5 37 54.59	1	+ 2.9874	+ 0.0030	− 3 39 1.5	1	+ 1.930	− 0.434	83.1	− 3 1181
1157	9	38 2.91	1	3.0133	0.0030	− 2 32 22.1	1	1.918	0.438	93.0	− 2 1354
1158	8	38 6.95	4	2.9649	0.0030	− 4 36 52.3	4	1.912	0.431	87.6	− 4 1227
1159	9.8	38 29.48	1	2.9134	0.0029	− 6 48 28.8	1	1.879	0.424	84.1	− 6 1301
1160	8	38 32.05	5	2.9437	0.0029	− 5 31 5.7	5	1.876	0.428	85.5	− 5 1379
1161	8	5 38 36.14	4	+ 2.9617	+ 0.0029	− 4 44 57.9	3	+ 1.870	− 0.431	85.6; 86.4	− 4 1231
1162	8	38 43.70	7	2.9108	0.0029	− 6 55 5.0	6	1.859	0.424	86.7	− 6 1302
1163	9.8	38 59.91	1	3.0130	0.0030	− 2 33 11.9	1	1.835	0.438	93.0	− 2 1363
1164	9.8	39 19.03	3	2.9727	0.0029	− 4 16 45.7	2	1.807	0.432	88.2	− 4 1233
1165	9.8	39 24.40	1	3.0268	0.0030	− 1 57 34.2	1	1.800	0.440	90.1	8ter B. −1° 132
1166	7	5 40 6.02	4	+ 2.9718	+ 0.0029	− 4 18 59.1	2	+ 1.739	− 0.432	87.9; 86.6	− 4 1235
1167	9.8	40 6.41	4	2.9487	0.0029	− 5 18 17.6	3	1.738	0.429	85.6	− 5 1387
1168	8.7	40 14.94	3	2.9777	0.0029	− 4 3 55.6	2	1.726	0.433	82.8	− 4 1236
1169	9	40 26.27	2	2.9345	0.0028	− 5 54 27.7	1	1.710	0.427	89.1; 91.2	− 5 1389
1170	8	40 27.84	3	2.9779	0.0029	− 4 3 19.3	2	1.707	0.433	85.1; 87.6	− 4 1237
1171	9	5 40 28.56	2	+ 2.9366	+ 0.0028	− 5 49 12.8	2	+ 1.706	− 0.427	87.1	− 5 1390
1172	9	40 33.80	3	2.9472	0.0028	− 5 22 2.3	2	1.698	0.429	86.8	− 5 1393
1173	8	40 43.70	3	2.9090	0.0028	− 6 59 31.6	3	1.684	0.424	84.4	− 7 1167
1174	8.9	40 47.03	2	2.9953	0.0029	− 3 18 27.6	2	1.680	0.436	85.6	− 3 1192
1175	9.8	41 5.14	3	2.9515	0.0028	− 5 10 53.0	2	1.653	0.430	86.5	− 5 1395
1176	8.9	5 41 27.92	5	+ 2.9407	+ 0.0028	− 5 38 23.0	5	+ 1.620	− 0.428	85.5	− 5 1398
1177	8.9	41 29.48	2	2.9432	0.0028	− 5 31 59.3	2	1.618	0.428	85.1	− 5 1399
1178	8	41 45.24	5	3.0178	0.0029	− 2 20 28.4	5	1.595	0.439	88.5	− 2 1373
1179	8	41 56.31	3	2.9210	0.0027	− 6 28 46.2	3	1.579	0.425	86.2	− 6 1313
1180	9	42 15.43	1	2.9592	0.0028	− 4 51 11.0	1	1.551	0.431	87.1	− 4 1243
1181	8.9	5 42 30.43	2	+ 2.9160	+ 0.0027	− 6 41 16.8	2	+ 1.529	− 0.425	83.6	− 6 1317
1182	6	42 37.22	5	2.9761	0.0028	− 4 7 44.8	5	1.519	0.433	85.3	− 4 1244
1183	7	42 37.26	4	3.0298	0.0028	− 1 49 41.3	1	1.519	0.441	87.4; 90.1	− 1 1030
1184	8.9	42 43.75	6	2.9353	0.0027	− 5 52 13.0	4	1.510	0.428	87.1	− 5 1406
1185	9.8	42 59.49	5	2.9366	0.0027	− 5 48 42.2	2	1.487	0.428	85.2	− 5 1409
1186	8.9	5 43 0.31	1	+ 3.0272	+ 0.0028	− 1 56 20.9	1	+ 1.486	− 0.441	80.2	− 1 1032
1187	8.9	43 1.37	3	3.0305	0.0028	− 1 47 55.7	2	1.484	0.441	89.8	− 1 1033
1188	9.8	43 1.53	2	2.9432	0.0027	− 5 31 49.0	1	1.484	0.429	83.1	− 5 1410
1189	9.8	43 41.32	2	2.9269	0.0027	− 6 13 33.6	2	1.426	0.426	91.1	− 6 1323
1190	8.9	43 42.99	7	2.9675	0.0027	− 4 29 42.6	7	1.424	0.432	88.0	− 4 1251
1191	8.9	5 44 11.10	3	+ 2.9337	+ 0.0027	− 5 56 9.4	2	+ 1.383	− 0.428	86.1	− 5 1417
1192	8.9	44 26.50	1	3.0230	0.0027	− 2 6 59.7	1	1.360	0.440	90.1	− 2 1386
1193	8.9	44 32.29	2	2.9974	0.0027	− 3 12 16.5	2	1.352	0.437	82.2	− 3 1208
1194	9	44 34.02	1	2.9553	0.0027	− 5 0 46.2	1	1.349	0.431	87.1	− 5 1419
1195	9	45 16.96	1	2.9403	0.0026	− 5 39 3.4	1	1.287	0.428	87.0	− 5 1422
1196	8.9	5 45 27.36	2	+ 3.0036	+ 0.0027	− 2 57 2.5	2	+ 1.272	− 0.438	85.2	− 2 1391
1197	9.8	45 56.28	1	2.9123	0.0026	− 6 50 19.0	1	1.230	0.424	91.2	− 6 1335
1198	8	46 27.96	6	3.0184	0.0026	− 2 18 58.7	6	1.184	0.440	89.2	− 2 1395
1199	9.8	46 52.99	1	3.0287	0.0026	− 1 52 26.5	1	1.147	0.442	80.2	− 1 1052
1200	8	46 55.51	1	2.9980	0.0026	− 3 11 23.4	1	1.144	0.437	85.2	− 3 1221

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
1201	9.8	5	46	57.77	3	+ 3.0086	+ 0.0026	— 2	43	56.9	3	+ 1.140	— 0.438	90.4	— 2	1398
1202	8.9		47	23.52	1	2.9890	0.0026	— 3	34	14.2	1	1.103	0.436	85.2	— 3	1223
1203	8.9		47	42.99	6	2.9482	0.0025	— 5	18	47.1	6	1.074	0.430	86.8	— 5	1433
1204	8		47	43.55	7	2.9250	0.0025	— 6	17	48.1	7	1.074	0.426	87.8	— 6	1344
1205	8		47	48.97	4	2.9383	0.0025	— 5	43	53.3	4	1.066	0.428	85.4	— 5	1434
1206	9	5	47	52.36	1	+ 2.9181	+ 0.0025	— 6	35	20.2	1	+ 1.061	— 0.426	87.2	— 6	1345
1207	9.8		47	59.37	1	3.0292	0.0026	— 1	51	2.8	1	1.050	0.442	90.1	— 1	1057
1208	9.8		48	9.58	1	2.9564	0.0025	— 4	57	43.8	1	1.040	0.428	87.1	— 4	1276
1209	9		48	25.84	1	2.9418	0.0025	— 5	35	5.2	1	1.012	0.429	87.0	— 5	1436
1210	9		48	28.62	1	2.9613	0.0025	— 4	45	13.7	1	1.008	0.432	87.0	— 4	1280
1211	8.9	5	48	36.72	2	+ 2.9969	+ 0.0025	— 3	14	1.0	2	+ 0.996	— 0.437	82.2	— 3	1229
1212	7		48	37.30	5	2.9769	0.0025	— 4	5	22.3	3	0.995	0.434	85.3; 83.1	— 4	1281
1213	8.9		48	41.88	2	2.9905	0.0025	— 3	30	29.2	2	0.988	0.436	82.6	— 3	1230
1214	8		49	4.04	5	3.0269	0.0025	— 1	56	55.7	5	0.956	0.441	85.9	— 1	1060
1215	9.8		49	4.13	2	3.0198	0.0025	— 2	15	16.7	2	0.956	0.440	92.0	— 2	1404
1216	8.9	5	49	18.78	4	+ 2.9772	+ 0.0024	— 4	4	31.2	2	+ 0.935	— 0.434	85.2; 88.7	— 4	1286
1217	9		49	27.64	1	3.0138	0.0025	— 2	30	43.9	1	0.922	0.440	89.1	— 2	1409
1218	8		49	29.78	4	2.9591	0.0024	— 4	50	50.3	2	0.919	0.432	87.7; 86.2	— 4	1288
1219	7.6		49	34.17	5	2.9640	0.0024	— 4	38	17.8	5	0.912	0.432	85.7	— 4	1289
1220	7.8		49	40.17	6	2.9600	0.0024	— 4	48	35.7	4	0.904	0.432	88.1; 89.1	— 4	1291
1221	9.8	5	49	56.71	2	+ 3.0065	+ 0.0024	— 2	49	16.0	1	+ 0.880	— 0.438	93.0	— 2	1412
1222	9.8		49	59.91	3	3.0207	0.0024	— 2	12	47.7	1	0.875	0.440	89.8; 85.2	— 2	1413
1223	9.8		50	5.68	2	3.0065	0.0024	— 2	49	15.5	1	0.866	0.438	93.0	— 2	1414
1224	8		50	9.23	1	2.9830	0.0024	— 3	49	31.4	1	0.861	0.435	83.1	— 3	1238
1225	9.8		50	23.02	1	3.0294	0.0024	— 1	50	34.8	1	0.841	0.442	90.1	— 1	1070
1226	8.9	5	50	58.15	4	+ 3.0214	+ 0.0024	— 2	11	2.6	4	+ 0.790	— 0.441	88.3	— 2	1416
1227	9.8		51	18.51	3	2.9269	0.0023	— 6	12	40.7	2	0.760	0.427	87.5; 85.6	— 6	1354
1228	9.8		51	36.39	1	3.0295	0.0024	— 1	50	6.2	1	0.734	0.442	80.2	— 1	1075
1229	8.9		51	49.61	4	2.9293	0.0023	— 6	6	36.1	3	0.715	0.427	88.2	— 6	1359
1230	8.9		52	3.44	1	2.8992	0.0023	— 7	23	6.9	1	0.695	0.423	78.0	— 7	1234
1231	9	5	52	5.66	4	+ 2.9204	+ 0.0023	— 6	29	17.2	3	+ 0.692	— 0.426	85.4	— 6	1360
1232	8.9		52	5.86	5	2.9362	0.0023	— 5	48	59.0	5	0.691	0.428	85.7	— 5	1451
1233	8		52	8.01	5	3.0246	0.0023	— 2	2	53.1	3	0.688	0.441	87.9; 86.8	— 2	1423
1234	7		52	25.28	3	2.9635	0.0023	— 4	39	28.1	3	0.663	0.432	85.5	— 4	1310
1235	9		52	29.02	1	2.9541	0.0023	— 5	3	27.6	1	0.658	0.431	87.1	— 5	1456
1236	8.9	5	52	33.27	5	+ 3.0231	+ 0.0023	— 2	6	45.2	3	+ 0.651	— 0.441	87.9	— 2	1427
1237	9		52	56.26	1	2.9424	0.0023	— 5	33	18.4	1	0.618	0.429	87.0	— 5	1458
1238	9.8		53	23.05	1	3.0106	0.0023	— 2	38	36.4	1	0.579	0.439	93.0	— 2	1434
1239	8.9		53	23.75	3	3.0175	0.0023	— 2	21	4.2	2	0.578	0.440	87.8; 86.7	— 2	1433
1240	9.8		53	28.36	1	2.9795	0.0023	— 3	58	32.3	1	0.571	0.435	92.2	— 3	1253
1241	8.9	5	53	41.34	6	+ 3.0176	+ 0.0023	— 2	20	43.8	4	+ 0.562	— 0.440	87.8	— 2	1436
1242	9.8		53	56.45	5	2.9516	0.0022	— 5	9	41.0	4	0.530	0.430	87.6	— 5	1463
1243	8		53	58.13	3	2.9176	0.0022	— 6	36	20.4	3	0.528	0.426	84.5	— 6	1372
1244	8.9		54	0.22	9	2.9509	0.0022	— 5	11	36.5	3	0.525	0.430	88.3	— 5	1464
1245	6.7		54	3.16	2	3.0004	0.0022	— 3	4	51.3	2	0.520	0.438	82.2	— 3	1256
1246	8.9	5	54	28.04	3	+ 2.9500	+ 0.0022	— 5	13	49.9	3	+ 0.484	— 0.430	88.0	— 5	1468
1247	8		54	43.58	1	2.8969	0.0022	— 7	28	35.1	1	0.462	0.422	85.2	— 7	1248
1248	8.9		54	47.86	2	2.9812	0.0022	— 3	54	8.4	2	0.455	0.435	84.6	— 3	1260
1249	9		54	58.64	1	2.9926	0.0022	— 3	24	56.3	1	0.440	0.436	85.2	— 3	1261
1250	8.9		55	4.98	3	3.0196	0.0022	— 2	15	28.0	3	0.430	0.439	92.7	— 2	1441

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1251	9	5 55 39.48	3	+3.0237	+0.0022	−2 4 59.5	3	+0.380	−0.441	86.4	−2 1447
1252	7.8	55 40.80	1	3.0331	0.0021	−1 40 54.7	1	0.378	0.443	80.2	−1 1092
1253	8	55 44.72	8	3.0173	0.0021	−2 21 27.2	2	0.372	0.440	86.1; 87.0	−2 1448
1254	8	55 52.91	2	2.9863	0.0021	−3 41 3.3	2	0.360	0.436	84.2	−3 1245
1255	9	55 58.65	2	2.9525	0.0021	−5 7 22.4	2	0.352	0.431	89.6	−5 1476
1256	7	5 56 14.45	9	+2.9521	+0.0021	−5 8 22.4	7	+0.329	−0.431	87.8	−5 1478
1257	8	56 22.67	2	2.9013	0.0021	−7 17 30.5	2	0.317	0.423	84.1	−7 1257
1258	8.9	56 28.92	10	3.0172	0.0021	−2 21 44.1	4	0.308	0.440	89.1; 87.1	−2 1453
1259	8.9	56 40.50	7	3.0159	0.0021	−2 24 53.6	1	0.291	0.440	87.5; 90.1	−2 1456
1260	9	56 41.41	1	2.9811	0.0021	−3 54 20.9	1	0.290	0.435	92.2	−3 1248
1261	8.9	5 56 55.77	2	+2.9540	+0.0021	−5 3 32.6	1	+0.269	−0.431	84.7; 86.2	−5 1480
1262	9	57 14.62	2	2.9908	0.0021	−3 29 29.9	2	0.241	0.436	85.6	−3 1271
1263	9	57 15.25	4	2.9174	0.0021	−6 35 38.9	4	0.240	0.426	85.2	−6 1386
1264	9.8	57 29.26	1	3.0120	0.0020	−2 35 9.4	1	0.220	0.439	93.0	−2 1462
1265	9	58 8.56	4	2.9327	0.0020	−5 57 41.0	3	0.162	0.428	87.1	−5 1487
1266	7.6	5 58 23.65	4	+2.9152	+0.0020	−6 42 17.3	3	+0.140	−0.425	87.4; 86.2	−6 1391
1267	9.8	58 24.76	1	2.9162	0.0020	−6 39 48.5	1	0.139	0.425	91.2	−6 1393
1268	9	58 35.48	4	2.9309	0.0020	−6 2 24.7	1	0.123	0.428	87.1	−6 1395
1269	7.8	58 38.64	1	3.0356	0.0020	−1 34 27.2	1	0.119	0.443	80.2	−1 1104
1270	9	58 39.52	1	2.9514	0.0020	−5 10 14.6	1	0.118	0.430	92.2	−5 1488
1271	8.9	5 59 2.54	10	+2.9475	+0.0020	−5 20 11.6	9	+0.084	−0.430	86.4	−5 1491
1272	8	59 15.17	1	2.8958	0.0020	−7 31 19.5	1	0.065	0.422	78.0	−7 1275
1273	9	59 33.11	2	2.9648	0.0020	−4 35 56.3	1	0.039	0.432	87.1	−4 1351
1274	8.9	59 38.12	6	2.9460	0.0020	−5 23 52.6	1	0.032	0.430	86.9; 84.1	−5 1495
1275	9.8	59 38.39	1	3.0218	0.0019	−2 10 0.9	1	0.032	0.441	94.0	−2 1473
1276	9.8	5 59 50.63	3	+2.9294	+0.0020	−6 6 11.8	2	+0.014	−0.427	85.8	−6 1404
1277	9.8	59 59.26	4	2.9541	0.0020	−5 3 9.8	4	0.001	0.431	87.9	−5 1497
1278	9.8	6 0 5.42	4	2.9423	0.0020	−4 33 17.8	3	−0.008	0.432	85.9	−4 1356
1279	8.9	0 7.68	3	2.9172	0.0020	−6 37 14.4	3	−0.011	0.425	84.5	−6 1407
1280	7.8	0 9.94	2	2.9349	0.0020	−5 52 12.2	2	−0.014	0.428	85.1	−5 1499
1281	8	6 0 16.42	3	+2.9009	+0.0020	−7 18 24.7	3	−0.024	−0.423	84.4	−7 1278
1282	6.7	0 41.68	4	2.9746	0.0019	−4 10 57.4	4	−0.061	0.434	82.9	−4 1362
1283	8.7	0 56.90	2	2.9946	0.0019	−3 19 45.9	2	−0.083	0.437	82.2	−3 1297
1284	7	1 7.10	1	2.9273	0.0019	−6 11 23.6	1	−0.098	0.427	87.0	−6 1412
1285	8	1 16.95	5	3.0271	0.0018	−1 56 17.8	2	−0.112	0.441	84.1; 85.1	−1 1114
1286	8.9	6 1 24.50	2	+2.9793	+0.0019	−3 58 51.2	2	−0.123	−0.434	83.1	−3 1302
1287	9.8	1 33.45	8	2.9465	0.0019	−5 22 32.8	6	−0.136	0.430	86.6	−5 1506
1288	8.9	1 35.56	2	2.9884	0.0018	−3 35 25.9	2	−0.139	0.436	85.6	−3 1302
1289	9	2 14.26	1	2.9237	0.0019	−6 20 43.1	1	−0.196	0.426	87.2	−6 1418
1290	8.9	2 14.69	8	3.0275	0.0018	−1 55 12.1	4	−0.196	0.442	86.0	−1 1121
1291	8	6 2 32.52	5	+2.9478	+0.0018	−5 19 27.6	2	−0.222	−0.430	87.9; 89.2	−5 1515
1292	8.9	2 33.17	2	2.9192	0.0019	−6 31 59.5	2	−0.223	0.426	83.2	−6 1420
1293	9.8	2 41.29	1	3.0145	0.0018	−2 28 44.3	1	−0.235	0.440	94.0	−2 1494
1294	8.9	2 49.24	9	2.9480	0.0018	−5 18 49.3	4	−0.247	0.430	86.9; 83.6	−5 1517
1295	7	2 53.45	8	3.0252	0.0018	−2 1 12.3	2	−0.253	0.441	86.0; 85.1	−2 1495
1296	7	6 2 58.28	2	+2.9128	+0.0018	−6 48 15.0	2	−0.260	−0.425	83.6	−6 1424
1297	8	3 24.68	10	2.9476	0.0018	−5 19 53.6	4	−0.298	0.430	87.2	−5 1520
1298	8.9	3 36.57	1	3.0052	0.0018	−3 22 36.7	1	−0.316	0.436	85.2	−3 1310
1299	9.8	3 39.26	3	2.9390	0.0018	−5 41 50.8	3	−0.320	0.428	85.8	−5 1522
1300	9	3 40.11	1	2.9246	0.0018	−6 18 20.0	1	−0.321	0.426	87.2	−6 1431

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1301	8.7	6 3 40.16	2	+ 2.9196	+ 0.0018	− 6 31 0.2	2	− 0.321	− 0.426	83.2	− 6 1432
1302	7	3 43.02	4	2.9391	0.0018	− 5 41 30.1	1	0.325	0.428	85.1; 83.2	− 5 1523
1303	9	3 56.80	1	2.9665	0.0018	− 4 31 38.8	1	0.345	0.432	87.1	− 4 1379
1304	9	4 13.54	1	3.0318	0.0017	− 1 44 6.7	1	0.370	0.442	90.1	− 1 1132
1305	8	5 3.45	4	3.0289	0.0016	− 1 51 35.4	4	0.442	0.442	85.6	− 1 1137
1306	7.8	6 5 11.35	2	+ 2.9146	+ 0.0017	− 6 43 48.4	2	− 0.454	− 0.425	83.6	− 6 1439
1307	8	5 14.00	3	2.9020	0.0018	− 7 15 40.6	2	0.458	0.423	84.4	− 7 1313
1308	9.8	5 18.76	2	2.9931	0.0017	− 3 23 35.5	2	0.465	0.436	82.2	− 3 1330
1309	8.9	5 23.55	5	2.9545	0.0017	− 5 2 21.4	4	0.482	0.431	87.1	− 5 1534
1310	9	5 32.03	4	2.9562	0.0017	− 4 58 1.5	1	0.484	0.431	87.1	− 4 1391
1311	8.9	6 5 34.09	2	+ 2.9029	+ 0.0018	− 7 13 34.1	1	− 0.488	− 0.423	84.7	− 7 1316
1312	6.7	5 48.01	2	2.9639	0.0017	− 4 38 24.6	2	0.508	0.432	86.2	− 4 1393
1313	6	6 1.44	3	2.9195	0.0017	− 6 31 26.8	3	0.527	0.425	85.8	− 6 1446
1314	9	6 3.70	3	2.9591	0.0017	− 4 50 37.0	2	0.530	0.431	87.1	− 4 1397
1315	9.8	6 8.40*)	2	2.9849	0.0016	− 3 44 27.6	2	0.537	0.435	81.6	− 3 1337
1316	8	6 6 28.63	2	+ 2.9880	+ 0.0016	− 3 36 35.2	2	− 0.567	− 0.435	81.6	− 3 1339
1317	7	6 43.02	4	3.0146	0.0016	− 2 28 37.7	4	0.588	0.439	86.6	− 2 1512
1318	9	6 49.79	1	2.9782	0.0016	− 4 1 49.8	1	0.598	0.434	86.0	− 4 1402
1319	8.9	7 2.72	2	2.9018	0.0017	− 7 16 14.2	1	0.616	0.423	84.6	− 7 1325
1320	7	7 7.77	6	2.9577	0.0016	− 4 54 14.1	2	0.624	0.431	86.9	− 4 1405
1321	8.7	6 7 17.90	5	+ 2.9559	+ 0.0016	− 4 58 47.2	2	− 0.639	− 0.431	86.9	− 4 1407
1322	8	7 33.39	1	3.0212	0.0015	− 2 11 23.4	1	0.661	0.440	80.2	− 2 1515
1323	8.9	7 35.91	3	2.9656	0.0016	− 4 34 9.8	2	0.665	0.432	86.2	− 4 1410
1324	6.7	7 56.06	3	2.9857	0.0015	− 3 42 36.3	2	0.694	0.435	81.2	− 3 1346
1325	9	8 7.66	1	2.9575	0.0016	− 4 54 45.1	1	0.711	0.431	87.0	− 4 1416
1326	6	6 8 40.65	4	+ 2.9664	+ 0.0015	− 4 32 10.1	1	− 0.759	− 0.432	86.2	− 4 1421
1327	8.9	8 47.64	3	2.9692	0.0015	− 4 24 53.6	3	0.769	0.432	88.2	− 4 1422
1328	9	8 50.28	1	3.0266	0.0015	− 1 57 34.4	1	0.773	0.441	90.1	8ter B. − 1° 152
1329	9	8 57.44	2	3.0295	0.0014	− 1 50 5.2	2	0.784	0.441	85.1	− 1 1168
1330	5.6	9 0.13	3	2.9263	0.0016	− 6 14 19.2	2	0.788	0.426	89.2; 90.2	− 6 1469
1331	8	6 9 1.74	1	+ 2.9922	+ 0.0015	− 3 26 6.5	1	− 0.790	− 0.436	79.2	− 3 1354
1332	9.8	9 4.53	1	2.9492	0.0015	− 5 16 2.4	1	0.794	0.429	83.1	− 5 1553
1333	8.9	9 11.34	3	2.9652	0.0015	− 4 35 7.6	2	0.804	0.432	88.2	− 4 1426
1334	9.8	9 16.19	3	2.9656	0.0015	− 4 34 9.7	1	0.811	0.432	88.2; 86.2	− 4 1427
1335	9	9 17.60	1	2.9372	0.0015	− 5 46 39.4	1	0.813	0.428	87.1	− 5 1555
1336	6	6 9 34.56	1	+ 2.9584	+ 0.0015	− 4 52 39.1	1	− 0.838	− 0.431	87.1	− 4 1431
1337	9	9 44.56	2	2.9369	0.0015	− 5 47 19.1	1	0.852	0.428	87.1	− 5 1562
1338	8.9	9 45.08	1	3.0176	0.0014	− 2 20 54.5	1	0.853	0.439	94.0	− 2 1530
1339	8.9	9 55.06	2	2.9279	0.0015	− 6 10 16.7	1	0.868	0.426	90.2; 87.2	− 6 1475
1340	9.8	10 11.21	1	2.9681	0.0015	− 4 27 47.1	1	0.891	0.432	86.2	− 4 1435
1341	8	6 10 35.20	1	+ 2.9218	+ 0.0015	− 6 25 48.8	1	− 0.926	− 0.425	83.2	− 6 1478
1342	8	10 45.93	1	2.9983	0.0014	− 3 10 20.2	1	0.942	0.436	78.1	− 3 1370
1343	9.8	11 17.19	3	2.9646	0.0014	− 4 36 43.6	3	0.987	0.431	88.2	− 4 1442
1344	8.9	11 19.20	2	2.9272	0.0015	− 6 12 5.4	2	0.990	0.426	87.1	− 6 1485
1345	9	11 20.98	1	3.0173	0.0013	− 2 21 43.0	1	0.993	0.439	90.1	− 2 1546
1346	8	6 11 21.55	4	+ 2.9484	+ 0.0014	− 5 18 4.6	2	− 0.994	− 0.429	87.4; 85.1	− 5 1565
1347	8	11 37.41	4	2.9493	0.0014	− 5 15 59.4	2	1.017	0.429	87.4; 89.6	− 5 1567
1348	9	11 47.18	2	3.0164	0.0013	− 2 23 51.2	1	1.031	0.439	89.6	− 2 1548
1349	7.8	11 56.81	5	2.9711	0.0014	− 4 20 17.9	5	1.045	0.432	85.0	− 4 1445
1350	8	12 24.37	3	2.9412	0.0014	− 5 36 35.3	3	1.085	0.428	85.8	− 5 1576

*) AR ± 0s.5 ?

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
1351	8.9	6	12	33.48	4	+ 3.0156	+ 0.0013	− 2	26	2.2	3	− 1.098	− 0.439	87.8	− 2	1554
1352	8.9		12	42.92	1	2.9866	0.0013	− 3	40	35.7	1	1.112	0.434	80.2	− 3	1384
1353	8.9		12	56.47	2	2.9552	0.0014	− 5	1	3.6	2	1.132	0.430	86.6	− 5	1581
1354	8		13	8.86	2	2.9932	0.0013	− 3	23	27.9	2	1.150	0.435	87.8	− 3	1386
1355	9.8		13	24.12	3	3.0334	0.0012	− 1	40	8.2	2	1.172	0.441	86.8	− 1	1191
1356	9.8	6	13	50.00	1	+ 2.9500	+ 0.0013	− 5	14	14.8	1	− 1.210	− 0.429	92.2	− 5	1588
1357	8.9		13	50.18	3	3.0353	0.0012	− 1	35	25.6	1	1.210	0.441	86.8; 90.1	− 1	1194
1358	8.9		14	6.50	2	2.9037	0.0014	− 7	12	4.3	2	1.234	0.422	83.6	− 7	1375
1359	9		14	13.22	3	2.9428	0.0013	− 5	32	40.2	2	1.244	0.428	85.8	− 5	1591
1360	9		14	19.71	2	2.9430	0.0013	− 5	32	9.5	1	1.253	0.428	87.1	− 5	1593
1361	9.8	6	14	22.15	1	+ 3.0249	+ 0.0012	− 2	2	8.1	1	− 1.256	− 0.440	88.2	− 2	1568
1362	8.9		14	29.72	2	2.9347	0.0013	− 5	53	32.0	2	1.268	0.427	90.2	− 5	1594
1363	9		14	51.37	1	2.9259	0.0013	− 6	15	53.4	1	1.300	0.425	87.2	− 6	1504
1364	7		14	54.28	4	2.9664	0.0012	− 4	32	32.5	4	1.303	0.431	89.2	− 4	1467
1365	8.9		15	14.34	2	2.9721	0.0012	− 4	17	53.9	2	1.332	0.432	86.2	− 4	1470
1366	9.8	6	15	14.92	2	+ 2.9348	+ 0.0013	− 5	53	14.2	1	− 1.333	− 0.426	87.2	− 5	1599
1367	9.8		15	49.46	5	2.9497	0.0012	− 5	15	19.2	3	1.384	0.428	88.2; 85.5	− 5	1602
1368	8.9		15	54.52	2	2.9404	0.0013	− 5	39	0.7	2	1.391	0.427	83.2	− 5	1604
1369	9		16	12.78	1	3.0169	0.0011	− 2	22	56.8	1	1.418	0.438	94.0	− 2	1578
1370	8.9		16	14.74	2	2.9628	0.0012	− 4	41	51.0	2	1.420	0.430	86.2	− 4	1476
1371	8.9	6	16	17.57	1	+ 3.0344	+ 0.0011	− 1	37	51.7	1	− 1.424	− 0.441	80.2	− 1	1217
1372	8.9		16	18.23	5	2.9505	0.0012	− 5	18	11.4	2	1.425	0.429	88.2	− 5	1608
1373	8.9		16	18.92	1	2.9463	0.0012	− 5	23	55.3	1	1.426	0.428	87.1	—	
1374	8		16	28.44	1	3.0106	0.0011	− 2	39	2.2	1	1.440	0.437	78.2	− 2	1579
1375	8.9		16	55.03	1	2.9576	0.0012	− 4	54	58.8	1	1.479	0.430	86.2	− 4	1480
1376	9	6	16	57.10	1	+ 2.9426	+ 0.0012	− 5	33	30.1	1	− 1.482	− 0.427	87.1	− 5	1613
1377	9.8		16	58.81	2	2.9407	0.0012	− 5	38	16.4	1	1.484	0.427	85.1; 87.1	− 5	1614
1378	8		17	1.91	1	2.9974	0.0011	− 3	13	4.8	1	1.489	0.435	78.1	− 3	1413
1379	8.9		17	5.56	1	3.0362	0.0010	− 1	33	9.5	1	1.494	0.441	90.1	− 1	1221
1380	8		17	7.21	2	2.9918	0.0011	− 3	27	25.2	2	1.497	0.434	87.6	− 3	1414
1381	9	6	17	24.74	1	+ 2.9238	+ 0.0012	− 6	21	23.3	1	− 1.522	− 0.425	87.2	− 6	1527
1382	7		17	27.05	6	2.9644	0.0011	− 4	37	41.0	4	1.525	0.430	86.2; 84.7	− 4	1484
1383	8		17	57.99	5	2.9635	0.0011	− 4	40	6.1	2	1.570	0.430	87.4; 88.2	− 4	1490
1384	8		18	29.13	1	3.0408	0.0009	− 1	21	15.1	1	1.616	0.441	90.1	− 1	1231
1385	9.8		18	51.10	2	3.0035	0.0010	− 2	57	28.2	1	1.648	0.436	84.2; 90.1	− 2	1597
1386	9.8	6	19	9.32	1	+ 2.9705	+ 0.0010	− 4	22	15.2	1	− 1.674	− 0.431	80.2	− 4	1498
1387	8.9		19	43.62	2	2.9613	0.0010	− 4	45	56.9	1	1.724	0.430	86.2	− 4	1501
1388	8.7		19	49.15	1	2.9833	0.0010	− 3	49	21.5	1	1.732	0.433	85.2	− 3	1425
1389	9.8		20	7.15	1	2.9291	0.0011	− 6	8	22.5	1	1.758	0.425	87.2	− 6	1542
1390	7		20	11.18	3	2.9921	0.0009	− 3	27	0.5	3	1.764	0.434	85.2	− 3	1430
1391	9.8	6	20	12.23	2	+ 2.9661	+ 0.0010	− 4	33	41.8	2	− 1.766	− 0.430	89.1	− 4	1504
1392	9.8		20	27.11	1	3.0315	0.0009	− 1	45	26.3	1	1.787	0.440	90.1	− 1	1240
1393	8		20	34.76	1	3.0389	0.0008	− 1	26	18.4	1	1.798	0.441	90.1	− 1	1242
1394	7		20	38.40	4	2.9669	0.0010	− 4	31	44.3	1	1.804	0.430	84.7	− 4	1510
1395	8		21	1.99	1	2.9701	0.0010	− 4	23	23.2	1	1.838	0.431	80.2	− 4	1512
1396	8.9	6	21	2.58	4	+ 2.9662	+ 0.0010	− 4	33	23.8	2	− 1.839	− 0.430	87.7; 86.2	− 4	1513
1397	7		21	4.27	1	2.9725	0.0010	− 4	17	14.9	1	1.841	0.431	86.2	− 4	1514
1398	8.9		21	6.11	1	3.0029	0.0009	− 2	59	11.3	1	1.844	0.435	78.2	− 2	1613
1399	9		21	14.96	3	2.9627	0.0010	− 4	42	35.8	3	1.857	0.429	88.2	− 4	1517
1400	9.8		21	26.52	1	3.0172	0.0008	− 2	22	19.5	1	1.874	0.437	94.0	− 2	1615

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1401	9.8	6 21 35.75	1	+ 3.0317	+ 0.0008	− 1 44 55.6	1	− 1.887	− 0.439	90.1	− 1 1245
1402	9	21 40.28	1	2.9426	0.0010	− 5 33 55.2	1	1.894	0.426	87.1	− 5 1641
1403	9	21 41.10	2	2.9915	0.0009	− 3 28 32.4	2	1.895	0.434	85.2	− 3 1439
1404	9.8	21 43.03	2	3.0307	0.0008	− 1 47 31.3	1	1.898	0.439	89.1	− 1 1247
1405	8	21 44.00	4	3.0122	0.0008	− 2 35 14.3	4	1.899	0.436	85.9	− 2 1617
1406	9	6 21 50.20	1	+ 2.9364	+ 0.0010	− 5 52 32.6	1	− 1.908	− 0.425	87.2	− 5 1642
1407	8	21 52.61	1	2.9592	0.0009	− 4 51 37.0	1	1.911	0.429	86.2	− 4 1523
1408	8.9	21 56.32	2	2.9540	0.0009	− 5 4 57.5	2	1.917	0.428	89.2	− 5 1644
1409	6.5	22 2.03	2	2.9632	0.0009	− 4 41 22.7	2	1.925	0.429	89.2	− 4 1526
1410	9	22 8.55	2	2.9624	0.0009	− 4 43 23.1	1	1.927	0.429	89.2	− 4 1528
1411	9	6 22 14.94	2	+ 2.9124	+ 0.0010	− 6 51 14.0	2	− 1.944	− 0.422	83.6	− 6 1564
1412	8.9	22 15.54	1	2.9600	0.0009	− 4 49 29.9	1	1.945	0.429	86.2	− 4 1530
1413	8.9	22 35.69	1	2.9214	0.0010	− 6 28 25.6	1	1.974	0.423	87.2	− 6 1568
1414	8.9	22 41.20	1	2.9861	0.0008	− 3 42 34.0	1	1.982	0.432	85.2	− 3 1450
1415	8.9	22 53.46	2	2.9115	0.0010	− 6 53 41.1	1	2.000	0.422	83.2	− 6 1570
1416	8.9	6 23 11.40	5	+ 2.9444	+ 0.0009	− 5 29 44.8	2	− 2.026	− 0.426	87.5; 85.1	− 5 1649
1417	9	23 15.40	4	2.9450	0.0009	− 5 28 1.0	2	2.032	0.426	88.6; 90.1	− 5 1650
1418	8.9	23 20.86	1	2.9406	0.0009	− 5 39 29.7	1	2.039	0.426	83.2	− 5 1651
1419	9.8	23 27.95	1	3.0076	0.0007	− 2 47 7.2	1	2.050	0.435	89.2	− 2 1631
1420	8.9	23 37.87	4	2.9916	0.0008	− 3 28 24.1	4	2.064	0.433	85.2	− 3 1456
1421	9	6 24 0.96	3	+ 2.9444	+ 0.0009	− 5 29 47.7	1	− 2.098	− 0.426	87.1	− 5 1655
1422	8	24 26.42	3	3.0040	0.0007	− 2 56 31.6	3	2.134	0.435	82.1	− 2 1639
1423	8	24 27.19	2	2.9244	0.0009	− 6 21 0.2	2	2.136	0.423	85.2	− 6 1585
1424	8	24 31.81	3	2.9650	0.0008	− 4 37 1.7	3	2.142	0.429	86.2	− 4 1546
1425	9	24 41.69	1	2.9524	0.0008	− 5 9 15.7	1	2.157	0.427	92.2	− 5 1661
1426	8	6 24 48.88	1	+ 2.9880	+ 0.0007	− 3 37 55.8	1	− 2.167	− 0.432	85.2	− 3 1469
1427	9	25 23.92	1	2.9569	0.0008	− 4 57 50.4	1	2.218	0.428	87.1	− 4 1552
1428	9	25 38.35	3	2.9293	0.0008	− 6 8 40.0	3	2.239	0.424	87.2	− 6 1598
1429	8.9	25 42.22	1	2.9494	0.0008	− 5 17 7.6	1	2.244	0.426	83.1	− 5 1666
1430	9.8	25 57.02	2	3.0097	0.0006	− 2 42 0.4	1	2.266	0.435	87.2; 96.2	− 2 1649
1431	9.8	6 26 8.57	1	+ 3.0076	+ 0.0006	− 2 47 28.0	1	− 2.283	− 0.435	84.2	− 2 1650
1432	8.9	26 13.72	1	2.9395	0.0008	− 5 42 43.1	1	2.290	0.425	83.2	− 5 1674
1433	9.8	26 22.80	1	2.9040	0.0009	− 7 13 18.1	1	2.303	0.420	84.1	− 7 1455
1434	8.9	26 26.98	2	2.9017	0.0009	− 7 19 15.7	1	2.309	0.419	83.6	− 7 1456
1435	7	26 30.49	2	2.9379	0.0008	− 5 46 53.2	1	2.314	0.425	83.2	− 5 1678
1436	9	6 26 45.23	1	+ 2.9234	+ 0.0008	− 6 24 8.1	1	− 2.336	− 0.422	87.2	− 6 1598
1437	8	26 46.35	5	2.9502	0.0008	− 5 15 14.9	4	2.337	0.426	88.3; 89.6	− 5 1680
1438	8	27 0.11	3	2.9857	0.0006	− 3 43 58.4	3	2.357	0.431	86.5	− 3 1480
1439	9.8	27 14.15	1	3.0075	0.0006	− 2 47 49.9	1	2.378	0.434	96.2	− 2 1657
1440	9.8	27 51.09	1	3.0283	0.0005	− 1 54 8.1	1	2.431	0.437	90.1	− 1 1276
1441	8.9	6 27 52.26	1	+ 2.9067	+ 0.0008	− 7 6 48.5	1	− 2.433	− 0.420	83.2	− 7 1471
1442	9	27 55.67	1	3.0197	0.0005	− 2 16 16.5	1	2.438	0.436	90.1	− 2 1660
1443	9.8	27 55.82	2	2.9219	0.0008	− 6 27 59.0	2	2.438	0.422	85.2	− 6 1605
1444	9	28 0.14	2	2.9325	0.0007	− 6 0 59.2	2	2.444	0.423	87.2	− 6 1606
1445	8.9	28 4.40	4	2.9684	0.0006	− 4 28 41.3	3	2.450	0.429	87.7	− 4 1566
1446	9.8	6 28 5.60	2	+ 2.9567	+ 0.0007	− 4 58 51.6	2	− 2.452	− 0.427	86.6	− 4 1567
1447	9.8	28 9.03	3	2.9768	0.0006	− 4 7 3.5	2	2.457	0.430	85.8	− 4 1568
1448	8	28 19.75	4	3.0071	0.0005	− 2 48 52.8	4	2.472	0.434	89.4	− 2 1662
1449	8.7	28 21.43	5	3.0032	0.0005	− 2 58 58.8	5	2.475	0.434	84.4	− 2 1663
1450	8	28 22.96	3	2.9607	0.0006	− 4 48 32.9	3	2.477	0.428	86.2	− 4 1569

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1451	9.8	6 28 26.15	2	+ 2.9911	+ 0.0006	− 3 30 19.4	2	− 2.482	− 0.432	82.2	− 3 1489
1452	8.9	28 52.47	5	2.9318	0.0007	− 6 3 2.4	3	2.520	0.423	87.2; 85.8	− 6 1616
1453	8.9	28 54.39	3	2.9758	0.0006	− 4 9 44.2	1	2.523	0.429	85.8	− 4 1571
1454	8.9	28 56.43	5	2.9659	0.0006	− 4 35 21.6	3	2.526	0.428	88.6	− 4 1574
1455	9.8	29 15.15	1	3.0087	0.0005	− 2 44 55.9	1	2.553	0.434	96.2	− 2 1668
1456	8.7	6 29 21.48	4	+ 2.9684	+ 0.0006	− 4 41 46.8	2	− 2.562	− 0.428	87.7; 89.2	− 4 1576
1457	8	29 31.96	1	2.9794	0.0005	− 4 0 28.5	1	2.577	0.430	80.2	− 3 1499
1458	8	29 32.35	2	3.0227	0.0004	− 2 8 34.4	2	2.578	0.436	81.2	− 2 1669
1459	8	29 37.50	1	2.9030	0.0008	− 7 16 48.3	1	2.585	0.419	84.1	− 7 1479
1460	9	29 51.47	1	2.9394	0.0006	− 5 43 34.1	1	2.605	0.424	93.2	− 5 1698
1461	8.9	6 29 52.58	3	+ 2.9498	+ 0.0006	− 5 16 56.0	3	− 2.607	− 0.425	88.8	− 5 1699
1462	8.9	29 54.11	3	2.9382	0.0006	− 5 46 37.2	1	2.609	0.424	87.8; 83.2	− 5 1700
1463	8	30 0.02	1	2.9824	0.0005	− 3 52 52.0	1	2.618	0.430	80.2	− 3 1506
1464	8.9	30 19.45	3	2.9398	0.0006	− 5 42 44.5	1	2.646	0.424	87.8	− 5 1703
1465	6	30 40.90	4	2.9538	0.0006	− 5 6 48.7	4	2.677	0.426	90.1	− 5 1710
1466	9.8	6 30 47.85	1	+ 3.0303	+ 0.0003	− 1 49 7.9	1	− 2.687	− 0.437	90.1	− 1 1296
1467	9	30 48.20	1	2.9050	0.0007	− 7 11 54.9	1	2.687	0.419	83.2	− 7 1488
1468	9	30 49.90	1	2.9269	0.0006	− 6 15 58.1	1	2.690	0.422	87.2	− 6 1628
1469	8.9	30 54.57	2	3.0267	0.0003	− 1 58 28.2	1	2.696	0.436	89.1; 90.1	− 1 1298
1470	8.9	31 0.65	3	2.9915	0.0004	− 3 29 34.5	3	2.705	0.431	86.8	− 3 1513
1471	8	6 31 2.79	2	+ 3.0242	+ 0.0003	− 2 4 47.1	2	− 2.708	− 0.436	89.1	− 2 1680
1472	9.8	31 4.61	2	3.0078	0.0004	− 2 47 16.8	2	2.711	0.433	90.2	− 2 1681
1473	8.9	32 2.00	1	2.9103	0.0006	− 6 58 38.5	1	2.794	0.419	83.2	− 6 1641
1474	9	32 2.81	1	2.9465	0.0005	− 5 25 54.0	1	2.795	0.424	87.1	− 5 1716
1475	9.8	32 15.67	3	2.9660	0.0005	− 4 35 34.2	3	2.814	0.427	88.2	− 4 1593
1476	8.7	6 32 18.75	2	+ 3.0159	+ 0.0003	− 2 26 30.9	2	− 2.818	− 0.434	87.1	− 2 1691
1477	9	32 19.60	2	2.9384	0.0005	− 5 46 44.2	2	2.819	0.423	87.1	− 5 1719
1478	9	32 22.87	2	2.9490	0.0005	− 5 19 29.4	2	2.824	0.425	89.6	− 5 1720
1479	9	32 26.44	1	2.9046	0.0006	− 7 13 23.0	1	2.829	0.418	84.1	− 7 1497
1480	9.8	32 26.54	2	2.9762	0.0004	− 4 9 20.3	2	2.829	0.428	83.2	− 4 1595
1481	9	6 32 26.62	1	+ 3.0275	+ 0.0002	− 1 56 25.7	1	− 2.829	− 0.436	90.1	− 1 1310
1482	8	32 38.92	3	2.9754	0.0004	− 4 11 19.6	1	2.847	0.428	83.8; 85.2	− 4 1597
1483	8.9	32 49.29	3	2.9521	0.0005	− 5 11 36.1	3	2.862	0.425	87.2	− 5 1724
1484	9	32 50.50	1	2.9338	0.0005	− 5 58 37.4	1	2.864	0.422	91.2	− 5 1725
1485	9.8	33 13.34	1	3.0047	0.0003	− 2 55 38.3	1	2.897	0.432	96.2	− 2 1334
1486	9	6 33 37.72	2	+ 3.0100	+ 0.0002	− 2 41 45.8	2	− 2.932	− 0.433	88.2	− 2 1701
1487	8.9	33 49.15	3	2.9250	0.0005	− 6 21 32.5	2	2.948	0.421	85.8	− 6 1658
1488	8.9	34 3.54	1	3.0203	0.0002	− 2 15 15.2	1	2.969	0.434	84.2	− 2 1705
1489	9	34 4.91	2	2.9402	0.0005	− 5 42 30.6	1	2.971	0.423	87.1	− 5 1733
1490	9.8	34 5.73	3	2.9662	0.0004	− 4 35 31.1	2	2.972	0.427	90.2; 89.2	− 4 1607
1491	8.9	6 34 13.23	4	+ 3.0052	+ 0.0002	− 2 54 30.6	3	− 2.983	− 0.432	85.9; 82.5	− 2 1706
1492	8.9	34 13.88	4	2.9524	0.0004	− 5 10 58.2	4	2.984	0.424	88.9	− 5 1735
1493	8	34 19.24	3	2.9717	0.0003	− 4 21 12.2	3	2.992	0.427	84.2	− 4 1610
1494	9	34 21.46	5	2.9660	0.0004	− 4 36 5.1	3	2.995	0.426	89.8	− 4 1611
1495	8.9	34 22.37	1	2.9970	0.0003	− 3 15 41.8	1	2.996	0.431	96.2	− 3 1537
1496	7.8	6 34 27.50	2	+ 2.9279	+ 0.0005	− 6 14 14.2	2	− 3.004	− 0.421	87.2	− 6 1664
1497	9.8	34 31.15	2	2.9935	0.0003	− 3 24 53.1	2	3.009	0.430	82.2	− 3 1542
1498	9.8	34 39.83	2	2.9809	0.0003	− 3 57 23.8	2	3.022	0.428	85.7	− 3 1544
1499	9	34 52.69	2	2.9402	0.0004	− 5 42 30.5	1	3.040	0.423	87.1	− 5 1743
1500	8.9	35 0.08	1	2.9469	0.0004	− 5 25 24.1	1	3.051	0.423	92.2	− 5 1744

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1501	9.8	6 35 1.38	2	+ 3.0077	+ 0.0002	− 2 47 55.8	2	− 3.053	− 0.432	90.6	− 2 1711
1502	9.8	35 5.86	3	3.0291	0.0001	− 1 52 28.5	3	3.059	0.435	89.4	− 1 1328
1503	8	35 15.59	3	2.9429	0.0004	− 5 35 39.6	2	3.073	0.423	87.8	− 5 1747
1504	8.9	35 20.58	1	3.0208	0.0001	− 2 14 10.9	1	3.080	0.434	89.2	− 2 1716
1505	8	35 32.63	4	2.9831	0.0002	− 3 51 57.7	2	3.098	0.428	86.2; 87.2	− 3 1553
1506	8	6 35 33.29	3	+ 2.9088	+ 0.0005	− 7 3 27.0	3	− 3.099	− 0.418	83.5	− 7 1526
1507	8	35 37.18	2	2.9329	0.0004	− 6 1 42.0	1	3.104	0.421	85.2; 83.2	− 6 1679
1508	9	35 40.34	1	3.0251	0.0001	− 2 2 58.8	1	3.109	0.434	90.1	− 2 1721
1509	8	35 56.28	2	2.9326	0.0004	− 6 2 23.8	1	3.132	0.421	85.2; 87.2	− 6 1682
1510	9	36 6.27	2	2.9649	0.0003	− 4 39 7.7	1	3.146	0.426	86.2	− 4 1620
1511	9	6 36 12.15	3	+ 2.9496	+ 0.0003	− 5 18 43.0	3	− 3.155	− 0.428	88.8	− 5 1751
1512	8.9	36 14.50	3	3.0042	0.0001	− 2 57 11.6	3	3.158	0.431	88.5	− 2 1725
1513	7	36 15.31	3	2.9336	0.0004	− 6 0 0.0	1	3.159	0.421	85.8; 87.2	− 5 1753
1514	8	36 16.73	6	2.9832	0.0002	− 3 51 39.3	3	3.161	0.428	85.2	− 3 1555
1515	8.9	36 17.15	1	2.9283	0.0004	− 6 13 38.2	1	3.162	0.420	83.2	− 6 1684
1516	9	6 36 35.51	1	+ 2.9348	+ 0.0004	− 5 57 1.9	1	− 3.188	− 0.421	91.2	− 5 1755
1517	9.8	36 48.88	2	3.0117	0.0001	− 2 37 51.9	2	3.208	0.432	88.2	− 2 1729
1518	7	36 50.32	2	2.9795	0.0002	− 4 1 30.2	2	3.210	0.428	86.2	− 4 1627
1519	8	36 59.87	1	3.0084	0.0001	− 2 46 20.4	1	3.223	0.432	96.2	− 2 1732
1520	9.8	37 11.30	5	2.9649	0.0002	− 4 39 20.2	5	3.240	0.425	86.2	− 4 1632
1521	9	6 37 27.89	1	+ 2.9507	+ 0.0003	− 5 16 0.2	1	− 3.264	− 0.423	87.1	− 5 1762
1522	9	37 31.10	2	2.9430	0.0003	− 5 35 54.8	2	3.268	0.422	85.1	− 5 1763
1523	9.8	37 32.44	2	2.9731	0.0002	− 4 18 10.1	1	3.270	0.426	83.2; 80.2	− 4 1635
1524	8.9	38 0.73	1	2.9151	0.0004	− 6 48 1.9	1	3.311	0.418	83.2	− 6 1705
1525	9.8	38 22.63	2	3.0191	0.0000	− 2 18 39.8	2	3.342	0.433	86.7	− 2 1741
1526	9.8	6 38 25.70	2	+ 2.9690	+ 0.0002	− 4 28 57.2	2	− 3.347	− 0.425	89.2	− 4 1641
1527	9	38 28.81	2	2.9342	0.0003	− 5 59 5.2	2	3.351	0.420	87.2	− 5 1771
1528	8.9	38 48.78	3	2.9738	0.0001	− 4 16 26.2	2	3.380	0.426	84.2; 86.2	− 4 1644
1529	9.8	38 55.23	3	3.0089	0.0000	− 2 45 18.3	3	3.389	0.431	92.2	− 2 1744
1530	9	38 58.82	1	2.9490	0.0002	− 5 20 52.7	1	3.394	0.422	92.2	− 5 1775
1531	8	6 39 7.20	4	+ 2.9380	+ 0.0003	− 5 49 12.7	4	− 3.406	− 0.421	87.6	− 5 1777
1532	9.8	39 9.36	1	3.0270	− 0.0001	− 1 58 23.7	1	3.410	0.434	90.1	− 1 1362
1533	9	39 31.30	1	3.0277	− 0.0001	− 1 56 25.8	1	3.441	0.434	90.1	8ter B.−1° 175
1534	9	39 34.00	2	2.9318	+ 0.0003	− 6 6 38.6	2	3.445	0.420	87.2	− 6 1721
1535	8.9	39 38.71	1	2.9103	+ 0.0003	− 7 0 47.8	1	3.452	0.417	84.1	− 6 1724
1536	8.9	6 40 3.81	1	+ 2.9160	+ 0.0003	− 6 46 18.1	1	− 3.488	− 0.417	83.2	− 6 1728
1537	8.9	40 8.96	1	2.9057	0.0003	− 7 12 48.2	1	3.495	0.416	83.2	− 7 1551
1538	9	40 13.12	1	2.9376	0.0002	− 5 50 40.0	1	3.501	0.420	87.1	— —
1539	8	40 19.87	3	2.9543	0.0002	− 5 7 31.5	3	3.511	0.423	85.2	− 5 1791
1540	9	40 20.82	1	2.9491	0.0002	− 5 20 54.3	1	3.512	0.422	87.1	− 5 1792
1541	8.9	6 40 47.56	1	+ 2.9238	+ 0.0002	− 6 26 27.6	1	− 3.550	− 0.418	87.2	− 6 1733
1542	9.8	40 51.88	1	3.0131	− 0.0001	− 2 34 46.0	1	3.557	0.431	92.2	− 2 1762
1543	8.9	40 54.62	4	2.9336	+ 0.0002	− 6 1 2.7	4	3.561	0.420	86.2	− 5 1797
1544	9.8	41 7.69	1	3.0100	− 0.0001	− 2 42 46.2	1	3.579	0.430	84.2	− 2 1764
1545	9	41 14.26	1	2.9672	0.0000	− 4 34 7.8	1	3.589	0.424	92.2	− 4 1658
1546	9.8	6 41 19.82	2	+ 3.0198	− 0.0002	− 2 17 18.4	2	− 3.597	− 0.432	81.1	− 2 1766
1547	8.9	41 23.44	3	2.9374	+ 0.0002	− 5 51 31.0	3	3.602	0.420	85.8	− 5 1803
1548	8	42 2.07	5	2.9776	0.0000	− 4 7 20.9	4	3.658	0.425	86.0	− 4 1664
1549	9.8	42 2.18	1	2.9568	+ 0.0001	− 5 1 27.6	1	3.656	0.422	95.1	− 4 1665
1550	9	42 24.94	1	3.0250	− 0.0002	− 2 3 54.4	1	3.690	0.432	90.1	− 2 1771

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
1551	8	6 42 27.17	7	+ 2.9673	0.0000	— 4 34 15.7	4	— 3.693	— 0.424	86.2	— 4 1667
1552	8	42 28.72	2	2.9747	0.0000	— 4 15 2.2	2	3.696	0.425	83.2	— 4 1668
1553	9.8	42 29.98	1	2.9646	0.0000	— 4 41 12.5	1	3.698	0.423	86.2	— 4 1669
1554	9.8	42 30.11	4	2.9950	— 0.0001	— 3 21 56.3	4	3.698	0.428	85.9	— 3 1600
1555	9.8	42 33.72	1	2.9631	0.0000	— 4 45 8.4	1	3.703	0.423	86.2	— 4 1671
1556	8.7	6 42 38.38	2	+ 2.9818	— 0.0001	— 3 56 27.6	2	— 3.710	— 0.426	89.7	— 3 1603
1557	9.8	43 1.56	6	2.9675	0.0000	— 4 33 54.7	3	3.743	0.423	88.2	— 4 1676
1558	7	43 13.73	5	3.0233	— 0.0003	— 2 8 16.2	2	3.760	0.432	86.5; 81.6	— 2 1776
1559	9	43 16.49	1	3.0146	— 0.0002	— 2 30 57.3	1	3.764	0.430	92.2	— 2 1777
1560	9.8	43 24.81	1	2.9254	+ 0.0002	— 6 23 14.6	1	3.776	0.417	87.2	— 6 1752
1561	8.9	6 43 41.08	1	+ 2.9111	+ 0.0002	— 7 0 2.9	1	— 3.799	— 0.415	83.2	— 6 1756
1562	8.9	43 48.53	3	2.9312	+ 0.0001	— 6 8 15.8	3	3.810	0.418	85.8	— 6 1758
1563	9.8	43 56.79	4	3.0232	— 0.0003	— 2 8 38.6	3	3.822	0.431	86.9; 89.8	— 2 1783
1564	9	43 59.75	1	2.9868	— 0.0002	— 3 43 39.5	1	3.826	0.426	96.2	— 3 1612
1565	8	44 1.77	2	2.9488	0.0000	— 5 22 36.2	2	3.829	0.420	87.7	— 5 1815
1566	8.9	6 44 15.43	4	+ 3.0051	— 0.0002	— 2 56 2.5	4	— 3.849	— 0.428	85.9	— 2 1784
1567	9.8	44 18.45	1	2.9340	+ 0.0001	— 6 1 5.3	1	3.853	0.418	87.2	— 5 1821
1568	8	44 46.19	4	2.9777	— 0.0002	— 4 7 37.3	2	3.893	0.425	84.4; 82.7	— 4 1685
1569	9	44 59.64	3	2.9867	— 0.0002	— 3 44 19.4	2	3.912	0.426	87.2; 82.7	— 3 1617
1570	8.9	45 0.51	3	2.9778	— 0.0002	— 4 7 20.1	2	3.913	0.424	84.2; 86.2	— 4 1688
1571	8	6 45 7.41	4	+ 3.0080	— 0.0003	— 2 48 32.2	3	— 3.923	— 0.429	90.4; 88.5	— 2 1794
1572	8	45 19.23	4	2.9951	— 0.0002	— 3 22 25.9	4	3.940	0.427	85.9	— 3 1620
1573	8.9	45 30.50	2	3.0064	— 0.0003	— 2 52 39.6	1	3.956	0.428	96.2	— 2 1796
1574	9.8	45 33.88	1	3.0149	— 0.0004	— 2 30 35.3	1	3.961	0.429	92.2	— 2 1797
1575	8.7	45 38.92	4	3.0206	— 0.0004	— 2 15 46.3	3	3.968	0.430	83.6; 85.4	— 2 1798
1576	7.8	6 45 43.48	2	+ 2.9155	+ 0.0001	— 6 49 32.8	2	— 3.974	— 0.418	83.6	— 6 1775
1577	8	45 48.82	1	3.0258	— 0.0004	— 2 2 6.0	1	3.982	0.431	85.1	— 2 1801
1578	8	45 53.23	1	2.9497	— 0.0002	— 5 20 52.1	1	3.988	0.420	83.1	— 5 1836
1579	9	45 53.98	1	3.0269	— 0.0004	— 1 59 12.2	1	3.990	0.431	89.2	— 1 1415
1580	7.6	46 18.65	2	2.9462	— 0.0001	— 5 30 9.4	2	4.025	0.419	89.2	— 5 1839
1581	8	6 46 22.47	1	+ 2.9272	0.0000	— 6 19 21.2	1	— 4.030	— 0.416	83.2	— 6 1787
1582	8	46 27.09	1	2.9570	— 0.0001	— 5 1 54.9	1	4.037	0.421	95.1	— 5 1844
1583	8	46 28.20	2	3.0055	— 0.0003	— 2 55 13.1	1	4.038	0.428	96.2	— 2 1806
1584	7	46 28.99	1	2.9538	— 0.0001	— 5 10 21.0	1	4.040	0.420	80.2	— 5 1845
1585	8.9	46 31.06	1	2.9376	0.0000	— 5 52 36.9	1	4.042	0.418	83.2	— 5 1846
1586	9	6 46 35.97	1	+ 2.9360	0.0000	— 5 56 40.6	1	— 4.049	— 0.418	87.2	— 5 1848
1587	9.8	46 53.13	1	2.9662	— 0.0002	— 4 37 59.0	1	4.074	0.422	92.2	— 4 1706
1588	8.9	46 55.78	4	3.0056	— 0.0004	— 2 55 4.7	2	4.078	0.427	90.4	— 2 1809
1589	8.9	47 9.56	4	2.9671	— 0.0002	— 4 35 56.5	3	4.097	0.422	87.7; 86.2	— 4 1707
1590	8.9	47 14.97	1	2.9709	— 0.0002	— 4 25 54.8	1	4.105	0.422	92.2	— 4 1708
1591	8.9	6 47 57.93	1	+ 2.9754	— 0.0003	— 4 14 15.3	1	— 4.166	— 0.423	86.2	— 4 1713
1592	8.9	47 59.26	1	2.9758	— 0.0003	— 4 14 42.6	1	4.168	0.423	86.2	— 4 1714
1593	8.9	48 2.63	2	3.0133	— 0.0005	— 2 35 7.2	1	4.173	0.428	88.2	— 2 1816
1594	8.9	48 11.46	2	2.9170	0.0000	— 6 46 39.8	2	4.186	0.414	84.6	— 6 1803
1595	9	48 13.21	2	2.9944	— 0.0004	— 3 24 49.9	2	4.188	0.425	89.1	— 3 1638
1596	9.8	6 48 19.56	2	+ 3.0133	— 0.0005	— 2 35 4.0	1	— 4.197	— 0.428	88.2; 92.2	— 2 1820
1597	8	48 21.37	1	2.9379	— 0.0001	— 5 52 11.3	1	4.200	0.417	83.2	— 5 1864
1598	7	48 27.17	1	2.9294	— 0.0001	— 6 14 27.8	1	4.208	0.416	83.2	— 6 1808
1599	9.8	48 35.99	2	2.9683	— 0.0003	— 4 33 8.0	2	4.221	0.421	89.2	— 4 1721
1600	9	48 53.24	1	3.0269	— 0.0006	— 1 59 30.0	1	4.245	0.430	89.2	8ter B. —1° 186

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
1601	7	6	48	57.64	3	+ 3.0118	— 0.0005	— 2	39	12.4	2	— 4.252	— 0.427	84.8	— 2	1827
1602	9		48	59.99	3	2.9913	0.0004	— 3	32	59.4	3	4.255	0.424	88.8	— 3	1643
1603	8.7		49	6.71	3	3.0192	0.0005	— 2	19	52.4	3	4.264	0.428	85.4	— 2	1829
1604	9		49	22.08	1	2.9322	0.0001	— 6	7	29.7	1	4.285	0.416	87.2	— 6	1820
1605	8.9		49	49.24	1	2.9606	0.0003	— 4	53	34.2	1	4.325	0.420	80.2	— 4	1781
1606	9	6	49	51.26	1	+ 2.9836	— 0.0004	— 3	53	25.7	1	— 4.328	— 0.423	85.2	— 3	1648
1607	8.9		50	0.13	3	3.0034	0.0005	— 3	1	16.4	2	4.341	0.426	82.5	— 2	1835
1608	8.9		50	1.96	2	3.0028	0.0005	— 3	2	56.9	1	4.343	0.426	84.7	— 3	1650
1609	9		50	2.32	1	3.0206	0.0006	— 2	16	5.8	1	4.344	0.428	89.2	— 2	1836
1610	8.9		50	20.50	4	3.0259	0.0006	— 2	2	18.7	3	4.370	0.429	85.4; 87.8	— 2	1840
1611	8	6	50	35.42	1	+ 2.9896	— 000.04	— 3	37	42.4	1	— 4.391	— 0.424	85.2	— 3	1653
1612	8.9		50	47.25	4	2.9926	000.05	— 3	29	56.3	1	4.408	0.424	90.2; 96.2	— 3	1655
1613	8		50	52.92	6	2.9918	000.06	— 3	32	8.4	5	4.416	0.424	84.8	— 3	1657
1614	9		50	57.56	2	3.0299	000.07	— 1	51	52.0	2	4.422	0.429	90.1	— 1	1470
1615	8.9		50	59.02	3	2.9508	000.03	— 5	19	22.6	2	4.424	0.418	87.2; 84.7	— 5	1881
1616	8	6	51	0.13	1	+ 2.9536	— 000.03	— 5	12	6.0	1	— 4.426	— 0.418	80.2	— 5	1882
1617	9.8		51	10.22	2	3.0194	000.06	— 2	19	33.2	2	4.440	0.428	91.6	— 2	1844
1618	9.8		51	20.91	1	2.9763	000.04	— 4	12	55.0	1	4.456	0.421	92.2	— 4	1744
1619	8.9		51	23.23	2	2.9804	000.04	— 4	2	11.3	2	4.459	0.422	85.7	— 4	1745
1620	8.9		51	24.01	1	2.9379	000.02	— 5	53	22.9	1	4.460	0.416	83.2	— 5	1886
1621	9.8	6	51	45.33	2	+ 2.9516	— 000.03	— 5	17	43.5	1	— 4.490	— 0.418	87.7; 92.2	— 5	1892
1622	8.9		52	3.31	2	2.9284	000.02	— 6	18	13.1	1	4.516	0.414	87.2; 83.2	— 6	1848
1623	9		52	16.74	1	2.9603	000.04	— 4	54	59.2	1	4.535	0.419	95.1	— 4	1750
1624	8		52	27.57	8	2.9729	000.04	— 4	21	57.1	4	4.550	0.420	86.9	— 4	1752
1625	8		52	27.57	3	3.0072	000.06	— 2	51	50.5	3	4.550	0.425	87.5	— 2	1856
1626	8.9	6	52	39.15	8	+ 2.9728	— 000.04	— 4	22	23.1	2	— 4.567	— 0.420	86.9; 83.2	— 4	1756
1627	8.9		52	39.44	2	2.9275	000.02	— 6	20	54.7	2	4.567	0.414	87.2	— 6	1855
1628	8.9		52	47.17	1	2.9120	000.02	— 7	1	24.6	1	4.578	0.411	85.2	— 6	1859
1629	8.9		52	50.87	8	2.9722	000.04	— 4	23	51.8	2	4.582	0.420	86.9; 92.2	— 4	1759
1630	7.8		52	59.42	1	2.9846	000.05	— 3	51	24.4	1	4.595	0.422	80.2	— 3	1672
1631	8.9	6	53	9.08	2	+ 3.0026	— 000.06	— 3	4	4.4	2	— 4.609	— 0.424	84.7	— 3	1674
1632	9.8		53	17.09	1	2.9773	000.05	— 4	10	36.8	1	4.621	0.420	92.2	— 4	1762
1633	8		53	25.71	1	2.9529	000.04	— 5	14	47.1	1	4.633	0.417	80.2	— 5	1900
1634	9.8		53	44.41	2	2.9802	000.05	— 4	3	7.5	2	4.659	0.421	85.7	— 4	1767
1635	9.8		53	58.40	1	3.0284	000.08	— 1	56	16.7	1	4.679	0.427	90.1	— 1	1494
1636	8	6	54	20.15	5	+ 3.0209	— 000.08	— 2	16	1.9	5	— 4.710	— 0.426	86.1	— 2	1873
1637	9.8		54	23.18	2	3.0077	000.07	— 2	50	44.0	2	4.714	0.424	84.7	— 2	1874
1638	6.7		54	24.53	3	2.9540	000.04	— 5	12	15.7	2	4.716	0.417	85.2; 87.7	— 5	1910
1639	7.8		54	27.88	1	2.9435	000.04	— 5	39	41.1	1	4.721	0.415	83.2	— 5	1912
1640	9.8		54	28.74	3	3.0069	000.07	— 2	53	3.3	1	4.722	0.424	84.8; 92.2	— 2	1877
1641	8.9	6	54	50.50	2	+ 2.9295	— 000.03	— 6	16	35.0	2	— 4.753	— 0.413	85.2	— 6	1872
1642	8		55	1.80	2	3.0023	000.07	— 3	5	7.8	2	4.769	0.423	84.7	— 3	1685
1643	8.9		55	6.94	3	2.9860	000.06	— 3	48	11.3	3	4.776	0.421	85.2	— 3	1686
1644	9		55	13.24	2	3.0273	000.08	— 1	59	16.6	1	4.785	0.427	89.6	— 1	1504
1645	9.8		55	21.69	1	3.0273	000.08	— 1	59	10.1	1	4.797	0.427	90.1	— 1	1506
1646	7.8	6	55	26.42	1	+ 3.0055	— 000.07	— 2	56	55.5	1	— 4.804	— 0.424	78.2	— 2	1885
1647	9.8		55	27.76	2	2.9811	000.06	— 4	1	12.6	2	4.806	0.420	85.7	— 3	1690
1648	8.9		55	31.59	1	2.9362	000.04	— 5	59	16.2	1	4.812	0.414	87.2	— 5	1921
1649	8.9		55	38.17	1	2.9567	000.05	— 5	5	40.5	1	4.821	0.416	95.1	— 5	1923
1650	8.9		55	39.34	4	2.9183	000.03	— 6	46	8.9	4	4.822	0.411	85.9	— 6	1885

№	Gr.	A. R. 1880.0 h m s	Zahl der Beob.	Praec. s	Var saec. s	Decl. 1880.0 ° ′ ″	Zahl der Beob.	Praec. ″	Var. saec. ″	Ep. 1800 +	B. D. °
1651	6	6 56 3.09	4	+ 2.9459	— 0.0004	— 5 33 5.6	4	— 4.856	— 0.415	83.2	— 5 1926
1652	8.9	56 6.48	4	2.9851	0.0007	— 3 50 55.7	4	4.861	0.420	85.2	— 3 1693
1653	8	56 8.06	3	2.9911	0.0007	— 3 35 4.2	3	4.863	0.421	86.1	— 3 1694
1654	7.8	56 14.93	1	2.9394	0.0004	— 5 51 5.7	1	4.873	0.414	86.2	— 5 1927
1655	8.9	56 25.54	1	2.9979	0.0007	— 3 17 3.3	1	4.888	0.422	85.2	— 3 1698
1656	8	6 56 25.80	1	+ 3.0010	— 0.0008	— 3 9 1.8	1	— 4.888	— 0.422	84.2	— 3 1699
1657	8.9	56 37.50	5	2.9712	0.0006	— 4 27 48.8	5	4.904	0.418	88.6	— 4 1785
1658	8.9	56 48.54	2	2.9190	0.0003	— 6 44 49.1	1	4.920	0.410	84.2; 83.2	— 6 1900
1659	8.9	56 53.99	1	2.9220	0.0004	— 6 36 57.5	1	4.928	0.411	83.2	— 6 1902
1660	5.6	56 57.40	3	2.9802	0.0007	— 4 4 2.5	2	4.933	0.419	83.8	— 4 1788
1661	9	6 57 15.63	1	+ 3.0006	— 0.0008	— 3 10 10.6	1	— 4.958	— 0.422	85.2	— 3 1703
1662	8	57 19.41	5	2.9853	0.0007	— 3 50 37.0	3	4.964	0.420	82.8; 85.2	— 3 1704
1663	8.9	57 20.59	2	2.9198	0.0004	— 6 42 57.1	1	4.965	0.410	83.2	— 6 1904
1664	8	57 24.79	5	3.0078	0.0008	— 2 51 3.6	3	4.971	0.423	87.2; 88.5	— 2 1899
1665	9	57 28.40	1	2.9567	0.0006	— 5 6 6.4	1	4.976	0.416	92.2	— 5 1936
1666	8	6 57 29.49	3	+ 2.9797	— 0.0007	— 4 5 28.3	1	— 4.978	— 0.419	83.8	— 4 1793
1667	8	57 35.11	3	3.0204	0.0009	— 2 17 54.8	3	4.986	0.424	85.4	— 2 1900
1668	8.9	57 45.00	5	2.9193	0.0004	— 6 44 35.3	2	5.000	0.410	85.2; 87.2	— 6 1911
1669	9	57 48.96	1	3.0254	0.0010	— 2 4 37.9	1	5.006	0.425	89.2	— 2 1903
1670	8	58 3.53	3	2.9716	0.0007	— 4 26 59.1	3	5.026	0.417	88.2	— 4 1797
1671	6	6 58 10.75	5	+ 2.9558	— 0.0006	— 5 8 51.0	3	— 5.036	— 0.415	88.0; 84.2	— 6 1943
1672	8.9	58 11.17	1	3.0289	0.0010	— 1 55 26.6	1	5.037	0.425	90.1	— 1 1525
1673	9.8	58 12.52	2	3.0028	0.0008	— 3 4 40.0	2	5.039	0.422	84.7	— 3 1713
1674	8.9	58 20.50	3	3.0074	0.0009	— 2 52 24.2	1	5.050	0.422	87.2	— 2 1908
1675	8.9	58 24.82	4	2.9562	0.0006	— 5 7 46.1	1	5.056	0.415	89.9; 95.1	— 5 1945
1676	8.9	6 58 37.89	1	+ 2.9747	— 0.0007	— 4 19 4.2	1	— 5.074	— 0.418	80.2	— 4 1799
1677	8	58 39.91	1	3.0204	0.0010	— 2 18 2.0	1	5.077	0.424	84.2	— —
1678	9	58 47.43	1	2.9928	0.0008	— 3 31 4.7	1	5.088	0.420	94.1	— 3 1718
1679	9.8	59 3.40	3	2.9736	0.0007	— 4 21 59.3	2	5.110	0.417	86.2; 89.2	— 4 1806
1680	9.8	59 4.93	1	2.9451	0.0006	— 5 37 11.2	1	5.113	0.413	83.2	— 5 1956
1681	9	6 59 26.98	3	+ 3.0266	— 0.0010	— 2 1 36.5	3	— 5.142	— 0.424	90.1	— 1 1541
1682	9.8	59 37.93	5	2.9737	0.0007	— 4 21 59.7	3	5.159	0.417	88.6; 90.2	— 4 1810
1683	9.8	59 59.88	5	2.9733	0.0008	— 4 21 9.9	2	5.190	0.417	87.4; 86.2	— 4 1815
1684	8	7 0 27.20	4	3.0062	0.0010	— 2 55 58.7	3	5.229	0.421	84.2; 82.5	— 2 1925
1685	8	0 28.36	2	3.0027	0.0009	— 3 5 22.5	2	5.230	0.420	84.7	— 3 1732
1686	8.9	7 0 35.84	2	+ 2.9885	— 0.0009	— 3 43 3.0	2	— 5.241	— 0.419	82.7	— 3 1733
1687	9	0 35.88	1	2.9365	0.0006	— 6 0 29.6	1	5.241	0.411	87.2	— 5 1965
1688	8	0 39.05	2	2.9941	0.0009	— 3 28 5.6	2	5.245	0.419	85.2	— 3 1735
1689	8.9	0 48.95	4	3.0146	0.0010	— 2 33 53.1	4	5.259	0.422	86.6	— 2 1931
1690	9	0 57.10	1	3.0231	0.0011	— 2 11 4.0	1	5.271	0.423	78.2	— 2 1933
1691	8	7 1 5.19	2	+ 2.9530	— 0.0007	— 5 17 14.9	2	— 5.282	— 0.413	83.2	— 5 1967
1692	8	1 15.31	1	3.0097	0.0010	— 2 46 53.0	1	5.296	0.421	89.2	— 2 1936
1693	9.8	1 19.01	2	2.9473	0.0007	— 5 32 21.6	2	5.302	0.412	83.2	— 5 1970
1694	9	1 48.44	2	2.9742	0.0008	— 4 21 21.0	2	5.343	0.416	86.2	— 4 1828
1695	8.9	1 57.91	4	2.9826	0.0009	— 3 59 1.5	4	5.356	0.417	85.9	— 3 1751
1696	7	7 2 0.62	1	+ 2.9711	— 0.0008	— 4 29 32.9	1	— 5.360	— 0.415	86.2	— 4 1830
1697	9.8	2 8.31	1	2.9963	0.0010	— 3 22 46.3	1	5.371	0.419	94.1	— 3 1755
1698	8	2 12.18	1	3.0047	0.0010	— 3 0 16.8	1	5.376	0.420	85.1	— 2 1941
1699	8.9	2 12.32	1	3.0026	0.0010	— 3 6 1.3	1	5.376	0.419	85.2	— 3 1757
1700	8	2 49.96	4	2.9853	0.0009	— 3 52 4.6	4	5.429	0.417	80.7	— 3 1762

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec. s	Var. saec. s	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec. ″	Var. saec. ″	Ep. 1800 +	B. D. °	
1701	9.8	7	3	1.82	1	+ 3.0056	− 0.0011	− 2	58	17.6	1	− 5.446	− 0.420	84.2	− 2	1949
1702	8.9		3	13.08	3	2.9658	0.0008	− 4	44	7.6	3	5.462	0.414	84.2	− 4	1838
1703	8.9		3	14.08	3	3.0009	0.0010	− 3	10	40.2	3	5.463	0.419	84.5	− 3	1766
1704	9		3	21.98	1	2.9311	0.0006	− 6	15	58.0	1	5.474	0.409	87.2	− 6	1947
1705	9.8		3	25.00	1	2.9172	0.0006	− 6	52	40.5	1	5.478	0.407	85.2	− 6	1948
1706	9.8	7	3	35.06	1	+ 2.9179	− 0.0006	− 6	50	58.1	1	− 5.493	− 0.407	83.2	− 6	1951
1707	9.8		3	35.79	1	2.9340	0.0007	− 6	8	25.2	1	5.494	0.409	83.2	− 6	1952
1708	7		3	39.64	4	2.9406	0.0007	− 5	51	9.2	4	5.499	0.410	87.2	− 5	1993
1709	8.9		3	41.07	1	2.9488	0.0008	− 5	29	26.6	1	5.501	0.411	83.1	− 5	1994
1710	9		3	41.76	2	3.0267	0.0012	− 2	1	52.8	2	5.502	0.422	90.1	8ter B. − 1°	202
1711	8	7	3	59.54	2	+ 2.9480	− 0.0008	− 5	31	38.0*)	1	− 5.527	− 0.411	84.7; 86.2	− 5	1997
1712	5.6		4	16.15	4	2.9814	0.0010	− 4	3	3.9	3	5.550	0.415	84.4	− 4	1840
1713	9		4	20.44	1	2.9354	0.0007	− 6	5	0.8	1	5.556	0.409	87.2	− 6	1962
1714	9		4	21.44	4	3.0240	0.0012	− 2	9	17.3	4	5.558	0.421	85.7	− 2	1958
1715	9.8		4	21.46	2	2.9322	0.0007	− 6	13	42.7	2	5.558	0.408	85.2	− 6	1961
1716	8	7	4	28.66	3	+ 2.9783	− 0.0010	− 4	11	9.8	2	− 5.568	− 0.415	86.2	− 4	1841
1717	8.7		4	42.14	2	2.9708	0.0009	− 4	31	20.7	1	5.587	0.414	86.2	− 4	1842
1718	8.9		4	50.48	4	3.0194	0.0012	− 2	21	51.1	4	5.598	0.420	85.1	− 2	1943
1719	8.9		5	0.37	3	2.9768	0.0010	− 4	15	18.7	1	5.612	0.414	86.2	− 4	1843
1720	9.8		5	3.24	4	2.9340	0.0007	− 6	9	4.6	1	5.616	0.408	85.2; 83.2	− 6	1968
1721	7	7	5	4.61	3	+ 2.9893	− 0.0010	− 3	42	6.4	3	− 5.618	− 0.416	81.9	− 3	1781
1722	8		5	12.34	4	3.0094	0.0012	− 2	48	22.3	3	5.629	0.419	83.9	− 2	1969
1723	8		5	14.08	2	2.9712	0.0009	− 4	30	28.4	1	5.631	0.413	86.2	− 4	1845
1724	8.9		5	17.78	1	2.9988	0.0011	− 3	16	51.5	1	5.636	0.417	79.2	− 3	1784
1725	9.8		5	22.43	1	2.9840	0.0010	− 3	56	14.5	1	5.643	0.415	92.2	− 3	1785
1726	9.8	7	5	23.07	2	+ 2.9666	− 0.0009	− 4	42	47.3	2	− 5.644	− 0.413	86.2	− 4	1846
1727	9.8		5	27.62	2	2.9204	0.0007	− 6	45	19.2	2	5.650	0.406	84.2	− 6	1973
1728	8.9		5	35.59	2	2.9512	0.0008	− 5	23	52.8	1	5.662	0.410	86.2	− 5	2008
1729	9		5	46.55	1	3.0260	0.0013	− 2	4	15.2	1	5.677	0.421	90.1	− 2	1973
1730	8.9		5	47.73	5	2.9840	0.0010	− 3	56	20.3	4	5.678	0.415	87.4; 86.1	− 3	1789
1731	8.9	7	5	56.40	2	+ 2.9495	− 0.0008	− 5	28	19.3	2	− 5.690	− 0.410	84.7	− 5	2011
1732	8.9		5	57.93	1	3.0088	0.0012	− 2	50	6.2	1	5.693	0.418	84.2	− 2	1974
1733	9.8		6	3.12	1	2.9294	0.0007	− 6	21	52.8	1	5.700	0.407	87.2	− 6	1978
1734	8.9		6	13.86	2	3.0093	0.0012	− 2	48	52.3	1	5.715	0.418	84.2	− 2	1976
1735	8		6	15.86	3	2.9547	0.0009	− 5	14	46.5	3	5.718	0.411	87.2	− 5	2014
1736	8.9	7	6	22.16	4	+ 3.0192	− 0.0013	− 2	22	34.1	2	− 5.726	− 0.420	85.4; 84.2	− 2	1980
1737	8.9		6	32.11	3	3.0195	0.0013	− 2	21	41.1	1	5.740	0.420	87.5; 84.2	− 2	1981
1738	8.9		6	32.28	6	3.0108	0.0012	− 2	45	6.5	4	5.741	0.418	84.4	− 2	1982
1739	9.8		6	41.79	1	2.9248	0.0007	− 6	34	13.9	1	5.754	0.406	87.2	− 6	1985
1740	8.9		6	41.99	1	3.0058	0.0012	− 2	58	34.7	1	5.754	0.418	84.2	− 2	1987
1741	8	7	6	59.55	2	+ 2.9163	− 0.0007	− 6	56	53.0	2	− 5.779	− 0.405	83.2	− 6	1989
1742	9		7	2.97	1	3.0240	0.0013	− 2	9	44.5	1	5.784	0.420	90.2	− 2	1992
1743	9.8		7	9.08	1	3.0027	0.0012	− 3	6	42.9	1	5.792	0.417	94.1	− 3	1799
1744	9		7	9.34	2	3.0257	0.0014	− 2	5	9.9	2	5.792	0.420	90.1	− 2	1994
1745	9.8		7	12.19	2	3.0178	0.0013	− 2	26	29.3	2	5.796	0.419	86.7	− 2	1996
1746	9.8	7	7	23.20	1	+ 2.9422	− 0.0008	− 5	48	18.3	1	− 5.812	− 0.408	83.2	− 5	2023
1747	9		7	24.96	1	2.9364	0.0008	− 6	3	51.1	1	5.814	0.407	87.2	− 6	1998
1748	8.9		7	29.33	3	2.9326	0.0008	− 6	18	57.8	3	5.820	0.407	84.5	− 6	1994
1749	8		7	40.31	6	2.9615	0.0010	− 4	57	10.2	6	5.848	0.411	85.7	− 4	1862
1750	8.9		7	50.71	1	2.9984	0.0012	− 3	18	25.7	1	5.850	0.416	79.2	− 3	1801

*) δ − 1′?

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
1751	8	7 7 57.12	5	+ 2.9937	— 0.0012	— 3 31 18.2	5	— 5.859	— 0.415	88.4	— 3 1803
1752	9.8	8 12.33	2	3.0252	0.0014	— 2 6 35.3	2	5.880	0.419	84.2	— 2 2003
1753	6.5	8 12.59	1	2.9898	0.0012	— 3 41 48.8	1	5.881	0.419	80.2	— 3 1804
1754	8.9	8 59.09	3	3.0140	0.0014	— 2 37 2.7	3	5.946	0.417	82.8	— 2 2008
1755	9.8	9 21.21	1	2.9424	0.0009	— 5 48 41.0	1	5.976	0.407	93.2	— 5 2037
1756	8	7 9 26.50	1	+ 2.9639	— 0.0010	— 4 51 19.7	1	— 5.984	— 0.410	86.2	— 4 1873
1757	8	9 42.41	1	2.9184	0.0008	— 6 52 45.9	1	6.006	0.404	83.2	— 6 2016
1758	9.8	10 2.37	3	2.9298	0.0009	— 6 22 51.5	3	6.034	0.405	89.2	— 6 2018
1759	9.8	10 2.56	1	3.0315	0.0015	— 1 49 57.5	1	6.034	0.419	78.1	— 1 1623
1760	8.9	10 10.72	1	2.9954	0.0013	— 3 27 14.1	1	6.045	0.414	94.1	— 3 1821
1761	9.8	7 10 22.12	6	+ 3.0106	— 0.0014	— 2 46 18.6	6	— 6.061	— 0.416	85.4	— 2 2021
1762	8.9	10 27.09	1	3.0049	0.0014	— 3 1 50.4	1	6.068	0.414	84.2	— 2 2022
1763	8.9	10 32.79	1	2.9215	0.0008	— 6 44 58.8	1	6.076	0.404	84.2	— 6 2025
1764	9	10 36.25	2	3.0305	0.0016	— 1 52 53.3	1	6.081	0.419	90.2	— 1 1626
1765	8	10 38.14	4	2.9648	0.0011	— 4 49 26.4	4	6.083	0.409	86.2	— 4 1882
1766	8	7 10 53.30	4	+ 2.9946	— 0.0013	— 3 29 44.0	3	— 6.104	— 0.413	89.2; 87.5	— 3 1824
1767	8	11 8.92	1	2.9380	0.0009	— 6 1 28.7	1	6.126	0.405	87.2	— 5 2050
1768	8	11 8.94	1	2.9796	0.0012	— 4 10 8.8	1	6.126	0.411	85.2	— 4 1885
1769	9.8	11 11.63	1	3.0160	0.0015	— 2 32 7.4	1	6.130	0.416	79.2	— 2 2027
1770	8.9	11 16.21	2	2.9453	0.0010	— 5 41 55.7	1	6.136	0.406	89.7; 86.2	— 5 2051
1771	8	7 11 19.58	2	+ 2.9908	— 0.0013	— 3 40 1.1	2	— 6.141	— 0.413	79.7	— 3 1826
1772	9	11 25.01	2	3.0202	0.0015	— 2 20 53.6	2	6.148	0.417	89.2	— 2 2030
1773	9	11 27.41	1	3.0298	0.0016	— 1 54 49.2	1	6.152	0.418	90.1	— 1 1639
1774	8.9	11 29.32	3	3.0042	0.0014	— 3 3 57.1	2	6.154	0.414	87.5; 89.2	— 3 1828
1775	8.7	11 36.24	4	2.9938	0.0013	— 3 32 4.4	1	6.164	0.413	89.2	— 3 1831
1776	7	7 11 38.18	2	+ 2.9474	— 0.0010	— 5 36 30.8	1	— 6.167	— 0.406	89.7; 93.2	— 5 2055
1777	8.7	11 40.59	4	2.9282	0.0009	— 6 28 0.1	3	6.170	0.404	88.4; 86.9	— 6 2032
1778	9	7 11 59.94	2	3.0205	0.0015	— 2 20 1.4	1	6.197	0.416	89.2	— 2 2038
1779	8	12 2.39	3	3.0079	0.0014	— 2 54 0.7	2	6.200	0.415	82.5	— 2 2039
1780	9	12 17.43	1	2.9619	0.0011	— 4 58 3.9	1	6.221	0.408	95.2	— 4 1891
1781	8	7 12 21.64	1	+ 2.9969	— 0.0014	— 3 23 46.2	1	— 6.227	— 0.413	79.2	— 3 1838
1782	8.9	12 25.31	1	2.9814	0.0013	— 4 5 35.3	1	6.232	0.411	85.2	— 4 1893
1783	9.8	13 1.55	2	2.9610	0.0012	— 5 0 33.2	1	6.282	0.407	87.7; 80.2	— 4 1990
1784	8.9	13 3.68	4	2.9566	0.0011	— 5 12 39.6	4	6.285	0.407	86.9	— 5 2065
1785	9	13 24.25	1	3.0205	0.0016	— 2 20 23.3	1	6.314	0.415	89.2	— 2 2050
1786	8.9	7 13 37.26	1	+ 2.9972	— 0.0014	— 3 23 16.0	1	— 6.332	— 0.412	85.2	— 3 1847
1787	9.8	13 43.33	1	3.0330	0.0017	— 1 46 30.8	1	6.340	0.417	78.1	— 1 1656
1788	8.9	14 0.29	2	2.9756	0.0013	— 4 21 44.3	2	6.364	0.409	83.2	— 4 1907
1789	8.9	14 3.58	2	3.0120	0.0016	— 2 43 30.7	2	6.368	0.414	81.7	— 2 2059
1790	7	14 8.15	3	2.9905	0.0014	— 3 41 37.5	3	6.374	0.411	83.5	— 3 1850
1791	8	7 14 9.26	5	+ 2.9666	— 0.0012	— 4 46 15.8	3	— 6.376	— 0.408	87.4; 86.2	— 4 1908
1792	7.8	14 20.46	2	2.9408	0.0011	— 5 55 1.8	1	6.392	0.404	87.7; 82.2	— 5 2073
1793	8.9	14 28.41	3	2.9678	0.0013	— 4 43 5.0	2	6.402	0.407	86.2; 89.2	— 4 1912
1794	9	14 33.84	1	2.9252	0.0010	— 6 10 43.4	1	6.410	0.403	87.2	— 6 2056
1795	8	14 38.61	1	2.9307	0.0010	— 6 22 44.7	1	6.416	0.402	87.2	— 6 2057
1796	8.9	7 14 38.63	2	+ 2.9436	— 0.0011	— 5 48 12.7	2	— 6.416	— 0.404	83.2	— 5 2074
1797	9.8	14 53.28	1	2.9607	0.0012	— 5 2 17.1	1	6.437	0.406	86.2	— 4 1915
1798	7	14 57.06	4	2.9412	0.0011	— 5 54 44.8	2	6.442	0.403	87.0; 89.7	— 5 2075
1799	8.9	15 8.72	2	2.9930	0.0015	— 3 35 11.4	2	6.458	0.410	82.2	— 3 1853
1800	8.9	15 9.09	2	3.0030	0.0015	— 3 8 19.2	1	6.459	0.412	84.2	— 3 1854

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
1801	8.9	7 15 9.45	2	+ 2.9613	— 0.0012	— 5 0 44.2	1	— 6.459	— 0.406	83.2; 80.2	— 4 1918
1802	9.8	15 10.89	4	3.0179	0.0016	— 2 27 53.1	4	6.461	0.414	87.9	— 2 2068
1803	8.7	15 22.19	5	3.0046	0.0015	— 3 3 52.9	3	6.477	0.412	84.4; 85.4	— 3 1858
1804	9.8	15 27.81	1	2.9771	0.0014	— 4 18 21.1	1	6.484	0.408	86.2	— 4 1920
1805	8.9	15 35.99	1	2.9245	0.0010	— 6 40 0.7	1	6.496	0.401	84.2	— 6 2065
1806	9	7 16 2.11	1	+ 2.9977	— 0.0015	— 3 22 42.9	1	— 6.531	— 0.411	94.1	— 3 1864
1807	9.8	16 7.05	1	2.9484	0.0012	— 5 35 57.0	1	6.539	0.404	93.2	— 5 2085
1808	9.8	16 7.44	2	2.9884	0.0015	— 3 47 56.2	2	6.539	0.409	84.7	— 3 1865
1809	8	16 7.57	2	2.9541	0.0012	— 5 20 39.1	2	6.539	0.404	83.2	— 5 2086
1810	8.9	16 14.51	3	2.9304	0.0011	— 6 24 38.6	3	6.549	0.401	87.2	— 6 2074
1811	7.8	7 16 17.42	5	+ 3.0116	— 0.0016	— 2 45 10.1	4	— 6.553	— 0.412	84.6; 83.2	— 2 2079
1812	9.8	16 17.91	2	3.0126	0.0016	— 2 42 27.0	2	6.554	0.412	90.2	— 2 2080
1813	7.6	16 32.06	1	2.9450	0.0012	— 5 45 17.4	1	6.573	0.403	86.2	— 5 2089
1814	9.8	16 50.58	2	2.9620	0.0013	— 4 59 44.4	2	6.598	0.405	87.7	— 4 1926
1815	8	16 59.58	3	2.9916	0.0015	— 3 39 44.8	3	6.611	0.409	81.5	— 3 1871
1816	9.8	7 17 19.95	2	+ 2.9889	— 0.0015	— 3 46 58.9	1	— 6.639	— 0.409	84.7	— 3 1875
1817	8.9	17 24.12	2	2.9797	0.0014	— 4 12 8.2	2	6.645	0.407	85.2	— 4 1927
1818	8.9	17 32.84	1	2.9308	0.0011	— 6 24 18.5	1	6.657	0.400	87.2	— 6 2084
1819	9	17 42.41	1	2.9629	0.0013	— 4 57 41.5	1	6.670	0.405	92.2	— 4 1929
1820	9.8	17 56.09	1	2.9612	0.0013	— 5 2 23.3	1	6.689	0.404	86.2	— 4 1930
1821	8	7 18 2.85	4	+ 2.9898	— 0.0015	— 3 44 51.1	3	— 6.698	— 0.408	85.4; 83.9	— 3 1878
1822	9	18 12.83	1	3.0204	0.0018	— 2 21 40.4	1	6.712	0.412	89.2	— 2 2092
1823	8.9	18 31.66	1	2.9760	0.0015	— 4 22 34.3	1	6.738	0.406	80.2	— 4 1933
1824	8.9	19 1.15	3	2.9664	0.0014	— 4 48 46.6	3	6.778	0.404	86.2	— 4 1939
1825	9.8	19 7.86	1	2.9560	0.0013	— 5 16 55.0	1	6.787	0.403	86.2	— 5 2102
1826	9	7 19 12.25	2	+ 3.0086	— 0.0017	— 2 53 55.2	2	— 6.793	— 0.410	92.7	— 2 2101
1827	9.8	19 14.69	3	2.9558	0.0013	— 5 17 29.0	2	6.797	0.403	84.2; 83.2	— 5 2103
1828	8.9	19 15.05	4	2.9511	0.0013	— 5 30 23.1	2	6.797	0.402	88.2; 86.2	— 5 2104
1829	9.8	19 25.66	2	2.9808	0.0015	— 4 9 56.6	2	6.812	0.406	85.2	— 4 1941
1830	8.9	19 29.29	1	2.9930	0.0016	— 3 36 36.1	1	6.816	0.408	79.2	— 3 1890
1831	7	7 19 54.33	2	+ 3.0282	— 0.0019	— 2 0 36.6	2	— 6.851	— 0.412	81.6	8ter B.—1° 219
1832	9.8	19 57.19	4	2.9298	0.0012	— 6 28 28.0	3	6.855	0.399	86.4	— 6 2107
1833	7	19 57.35	5	2.9505	0.0013	— 5 32 19.8	2	6.855	0.401	87.8; 89.7	— 5 2112
1834	8.7	20 6.08	3	2.9779	0.0015	— 4 18 2.4	2	6.867	0.405	83.5; 82.7	— 4 1943
1835	9.8	20 12.36	1	2.9329	0.0012	— 6 20 8.9	1	6.876	0.399	87.2	— 6 2108
1836	8.9	7 20 31.82	1	+ 3.0297	— 0.0019	— 1 56 38.8	1	— 6.902	— 0.412	89.2	— 1 1711
1837	8.9	20 32.29	9	3.0107	0.0018	— 2 48 37.2	5	6.903	0.409	87.4; 85.6	— 2 2111
1838	8	20 36.46	1	2.9152	0.0011	— 7 8 9.5	1	6.909	0.397	84.2	— 7 1963
1839	8.9	20 36.56	12	3.0122	0.0018	— 2 44 43.3	5	6.909	0.409	87.6; 86.0	— 2 2113
1840	8	20 41.33	1	2.9828	0.0016	— 4 4 47.0	1	6.915	0.405	80.2	— 4 1949
1841	8.9	7 20 52.22	3	+ 2.9631	— 0.0014	— 4 58 42.4	3	— 6.930	— 0.403	86.2	— 4 1950
1842	8	20 52.58	1	2.9486	0.0013	— 5 37 50.5	1	6.931	0.401	86.2	— 5 2118
1843	9	20 54.84	1	2.9424	0.0013	— 5 54 43.7	1	6.934	0.400	93.2	— 5 2119
1844	8	21 9.64	5	2.9686	0.0015	— 4 48 44.4	3	6.954	0.403	88.0; 86.2	— 4 1952
1845	8.9	21 17.14	1	3.0067	0.0018	— 2 59 52.6	1	6.964	0.408	94.1	— 2 2117
1846	9.8	7 21 18.48	2	+ 2.9672	— 0.0015	— 4 47 35.9	2	— 6.966	— 0.403	90.7	— 4 1954
1847	8	21 41.91	7	3.0104	0.0018	— 2 49 49.7	2	6.998	0.408	87.9; 84.7	— 2 2123
1848	9.8	21 44.58	1	2.9800	0.0016	— 4 12 59.1	1	7.002	0.404	85.2	— 4 1958
1849	7	21 58.12	4	3.0146	0.0019	— 2 38 21.5	3	7.020	0.409	86.0; 86.5	— 2 2126
1850	8.9	22 10.37	6	3.0099	0.0018	— 2 51 17.9	3	7.037	0.408	88.5; 92.5	— 2 2129

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
1851	8	7	22	22.32	3	+ 2.9469	— 0.0014	— 5	43	20.7	3	— 7.054	— 0.399	86.6	— 5	2127
1852	9		22	40.75	2	2.9434	0.0013	— 5	53	11.2	2	7.079	0.399	87.7	— 5	2130
1853	9.8		22	52.90	2	2.9712	0.0016	— 4	37	29.8	1	7.095	0.402	87.7; 95.2	— 4	1962
1854	9		22	54.85	1	2.9531	0.0014	— 5	26	52.7	1	7.098	0.399	86.2	— 5	2132
1855	8		22	56.95	3	2.9940	0.0017	— 3	35	17.1	3	7.101	0.406	86.2	— 3	1912
1856	9.8	7	23	6.63	3	+ 2.9310	— 0.0013	— 6	27	10.5	1	— 7.114	— 0.397	86.2; 84.2	— 6	2133
1857	7.8		23	17.59	2	2.9785	0.0016	— 4	17	42.2	2	7.129	0.408	82.7	— 4	1965
1858	8.9		23	37.88	2	2.9681	0.0016	— 4	46	18.2	2	7.156	0.401	86.2	— 4	1967
1859	8.9		23	40.57	3	2.9552	0.0015	— 5	21	27.5	2	7.160	0.399	84.2; 83.2	— 5	2137
1860	9.8		23	44.61	3	2.9312	0.0013	— 6	26	53.2	1	7.166	0.396	86.2	— 6	2137
1861	8	7	23	50.49	1	+ 2.9642	— 0.0015	— 4	56	54.0	1	— 7.174	— 0.401	86.2	— 4	1970
1862	8		24	1.67	1	2.9958	0.0018	— 3	30	43.1	1	7.189	0.405	85.2	— 3	1920
1863	8.9		24	4.42	1	2.9719	0.0016	— 4	36	13.2	1	7.193	0.401	92.2	— 4	1973
1864	9.8		24	12.60	1	2.9695	0.0016	— 4	42	49.4	1	7.204	0.401	92.2	— 4	1975
1865	9.8		24	20.87	2	2.9318	0.0013	— 6	24	40.5	1	7.215	0.396	87.2	— 6	2141
1866	8	7	24	53.63	3	+ 2.9311	— 0.0013	— 6	28	1.8	1	— 7.260	— 0.395	85.9; 83.2	— 6	2146
1867	9.8?		24	55.56	1	2.9638	0.0016	— 4	58	38.1	1	7.262	0.400	86.1	— 4	1979
1868	8		24	55.66	2	3.0307	0.0021	— 1	54	53.3	2	7.262	0.409	81.6	5ter B. —1°	222
1869	9.8		25	1.56	1	2.9981	0.0018	— 3	24	39.0	1	7.270	0.404	79.2	— 3	1928
1870	8.9		25	31.20	4	2.9465	0.0014	— 5	46	8.5	4	7.286	0.397	88.2	— 5	2143
1871	9.8	7	25	13.54	1	+ 2.9438	— 0.0014	— 5	53	38.0	1	— 7.287	— 0.397	82.2	— 5	2144
1872	8.9		25	20.28	2	2.9614	0.0016	— 5	5	35.2	2	7.296	0.399	86.2	— 5	2145
1873	7.8		25	24.59	2	2.9759	0.0017	— 4	25	43.8	2	7.302	0.401	80.2	— 4	1984
1874	9.8		25	47.80	2	2.9297	0.0013	— 6	32	15.0	2	7.333	0.394	85.7	— 6	2153
1875	9.8		25	48.79	1	2.9830	0.0018	— 4	6	25.6	1	7.334	0.402	80.2	— 4	1986
1876	9.8	7	25	58.24	1	+ 2.9563	— 0.0015	— 5	19	51.0	1	— 7.340	— 0.398	80.2	— 5	2148
1877	8.9		26	0.71	2	2.9907	0.0018	— 3	45	22.8	2	7.351	0.403	89.6	— 3	1935
1878	8.7		26	4.59	4	2.9484	0.0015	— 5	41	24.1	1	7.356	0.397	89.7; 86.2	— 5	2153
1879	9.8		26	7.91	5	3.0081	0.0020	— 2	57	23.7	5	7.360	0.405	90.0	— 2	2163
1880	8		26	13.43	3	2.9682	0.0016	— 4	47	16.7	3	7.368	0.399	84.2	— 4	1988
1881	8.9	7	26	17.42	1	+ 2.9196	— 0.0013	— 7	0	13.2	1	— 7.373	— 0.393	84.2	— 6	2157
1882	8.9		26	51.12	1	2.9378	0.0014	— 6	10	48.3	1	7.419	0.395	87.2	— 6	2162
1883	8.7		27	40.59	2	2.9426	0.0015	— 5	58	10.4	2	7.486	0.395	84.2	— 5	2165
1884	9		28	2.13	1	2.9746	0.0018	— 4	30	33.6	1	7.515	0.399	95.2	— 4	2001
1885	8.9		28	2.83	2	2.9968	0.0019	— 3	29	25.3	2	7.516	0.402	82.2	— 3	1954
1886	9	7	28	6.66	1	+ 2.9340	— 0.0014	— 6	22	4.6	1	— 7.521	— 0.393	87.2	— 6	2179
1887	9.8		28	12.61	4	3.0077	0.0020	— 2	59	15.3	2	7.529	0.403	89.7	— 2	2180
1888	9.8		28	19.62	5	3.0085	0.0020	— 2	56	52.1	4	7.539	0.403	91.0	— 2	2181
1889	9		28	21.05	1	2.9491	0.0016	— 5	40	52.0	1	7.541	0.395	93.2	— 5	2168
1890	9		28	32.10	1	3.0218	0.0022	— 2	20	21.7	1	7.556	0.405	89.2	— 2	2183
1891	8.9	7	28	35.49	2	+ 2.9283	— 0.0014	— 6	38	8.6	2	— 7.560	— 0.392	85.7	— 6	2184
1892	8.9		28	44.97	3	2.9994	0.0020	— 3	22	24.9	3	7.573	0.402	89.8	— 3	1959
1893	9.8		28	58.69	3	2.9605	0.0017	— 5	9	53.4	3	7.592	0.396	87.2	— 5	2173
1894	8.9		29	15.56	1	2.9828	0.0019	— 4	8	35.4	1	7.614	0.399	85.2	— 4	2010
1895	9.8		29	30.25	2	2.9660	0.0017	— 4	55	0.3	2	7.634	0.397	86.2	— 4	2013
1896	9.8	7	29	35.39	1	+ 3.0109	— 0.0021	— 2	50	23.3	1	— 7.641	— 0.403	96.2	— 2	2192
1897	8.9		29	47.22	2	2.9878	0.0019	— 3	56	6.8	2	7.657	0.399	82.7	— 3	1966
1898	8		29	57.53	1	3.0053	0.0021	— 3	6	18.7	1	7.671	0.402	79.2	— 3	1968
1899	8.9		29	57.76	2	3.0009	0.0020	— 3	18	35.9	1	7.671	0.401	79.2	— 3	1967
1900	8.7		30	2.60	6	3.0100	0.0021	— 2	58	31.2	5	7.678	0.402	90.2; 89.0	— 2	2197

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		h	m	s		s	s	°	′	″		″	″		°	
1901	8	7	30	12.62	3	+ 2.9531	− 0.0016	− 5	30	57.2	3	− 7.691	− 0.394	89.9	− 5	2178
1902	9.8		30	20.61	1	2.9406	0.0015	− 6	5	26.5	1	7.702	0.398	86.2	− 6	2191
1903	8		30	30.33	3	2.9932	0.0020	− 3	40	13.2	2	7.715	0.400	85.9	− 3	1972
1904	9		30	54.48	1	2.9736	0.0018	− 4	34	34.6	1	7.748	0.397	92.2	− 4	2017
1905	9.8		31	11.15	2	2.9942	0.0020	− 3	37	37.6	1	7.770	0.399	82.7; 85.2	− 3	1977
1906	8	7	31	46.69	6	+ 3.0223	− 0.0023	− 2	19	40.3	6	− 7.818	− 0.403	86.6	− 2	2207
1907	8.9		31	50.32	1	2.9443	0.0016	− 5	56	12.9	1	7.823	0.392	82.2	− 5	2187
1908	8.9		31	53.93	1	3.0080	0.0022	− 2	59	34.0	1	7.828	0.401	90.1	− 2	2208
1909	8		31	56.25	4	3.0037	0.0021	− 3	11	34.8	4	7.831	0.400	84.7	− 3	1987
1910	7.8		32	0.46	2	2.9280	0.0015	− 6	41	22.0	2	7.836	0.390	85.7	− 6	2207
1911	9	7	32	3.84	2	+ 2.9357	− 0.0015	− 6	20	11.2	2	− 7.841	− 0.391	87.2	− 6	2210
1912	9.8		32	6.71	2	2.9552	0.0017	− 5	26	19.0	1	7.845	0.393	92.7	− 5	2189
1913	8.9		32	20.89	4	2.9706	0.0018	− 4	43	41.7	3	7.864	0.395	86.2; 84.2	− 4	2027
1914	9.8		32	33.36	2	2.9536	0.0017	− 5	31	4.1	2	7.880	0.393	83.2	− 5	2194
1915	8		32	46.88	4	2.9709	0.0019	− 4	43	13.4	1	7.898	0.395	86.2; 92.2	− 4	2028
1916	8.7	7	32	54.64	4	+ 2.9607	− 0.0018	− 5	11	26.8	4	− 7.909	− 0.393	89.2	− 5	2196
1917	8.9		32	56.42	1	2.9755	0.0019	− 4	30	25.3	1	7.911	0.395	92.2	− 4	2031
1918	9		33	2.75	2	3.0213	0.0023	− 2	22	51.0	2	7.920	0.401	89.2	− 2	2221
1919	8.9		33	12.22	2	2.9563	0.0018	− 5	23	51.5	1	7.932	0.393	93.2	− 5	2198
1920	9		33	34.07	1	2.9679	0.0019	− 4	51	49.1	1	7.962	0.394	86.2	− 4	2037
1921	8	7	33	56.24	2	+ 2.9441	− 0.0017	− 5	58	16.3	2	− 7.991	− 0.390	84.2	− 5	2202
1922	7.8		33	58.84	4	3.0013	0.0022	− 3	18	51.3	4	7.995	0.398	84.7	− 3	2002
1923	9.8		34	4.36	2	2.9999	0.0022	− 3	22	54.2	1	8.002	0.398	89.1; 94.1	− 3	2003
1924	9		34	12.76	2	2.9335	0.0016	− 6	27	48.7	2	8.013	0.389	87.2	− 6	2231
1925	8.9		34	21.92	2	2.9478	0.0017	− 5	48	9.9	2	8.026	0.390	89.7	− 5	2205
1926	8.9	7	34	52.70	1	+ 2.9551	− 0.0018	− 5	28	15.0	1	− 8.067	− 0.391	80.2	− 5	2209
1927	8.9		35	0.60	4	3.0210	0.0024	− 2	24	10.6	4	8.077	0.400	90.4	− 2	2235
1928	8		35	1.80	1	2.9217	0.0014	− 7	0	57.4	1	8.079	0.387	84.2	− 6	2235
1929	8		35	2.62	4	2.9342	0.0016	− 6	26	28.6	2	8.080	0.388	86.0; 84.7	− 6	2237
1930	8.9		35	9.76	2	2.9298	0.0016	− 6	38	42.2	1	8.090	0.388	85.7; 84.2	− 6	2238
1931	8	7	35	54.50	1	+ 2.9251	− 0.0015	− 6	52	17.3	1	− 8.149	− 0.386	84.2	− 6	2243
1932	9		36	0.37	1	2.9960	0.0022	− 3	34	45.2	1	8.157	0.396	90.2	− 3	2016
1933	8		36	6.12	2	2.9544	0.0018	− 5	30	51.0	2	8.165	0.390	89.2	− 5	2216
1934	8		36	12.45	1	3.0031	0.0023	− 3	14	20.4	1	8.173	0.396	84.2	− 3	2019
1935	9		36	30.33	1	2.9392	0.0017	− 6	13	44.7	1	8.197	0.388	87.2	− 6	2247
1936	8.9	7	36	35.41	2	+ 2.9925	− 0.0022	− 3	44	40.5	1	− 8.204	− 0.395	86.2; 92.2	− 3	2023
1937	8.9		36	36.33	7	3.0212	0.0024	− 2	24	7.8	6	8.205	0.398	87.4; 86.3	− 2	2251
1938	9.8		36	38.98	4	3.0132	0.0024	− 2	46	27.3	3	8.208	0.397	85.7	− 2	2252
1939	8.9		36	39.17	3	2.9556	0.0018	− 5	27	55.4	1	8.209	0.390	88.2	− 5	2218
1940	9.8		37	14.51	4	2.9722	0.0020	− 4	42	3.8	4	8.256	0.391	87.7	− 4	2058
1941	7.6	7	37	15.94	2	+ 2.9904	− 0.0022	− 3	50	48.7	1	− 8.258	− 0.394	79.7	− 3	2028
1942	9.8		37	28.08	2	2.9651	0.0019	− 5	1	57.0	2	8.274	0.390	90.7	− 4	2061
1943	8		37	35.02	1	2.9787	0.0021	− 4	23	50.6	1	8.283	0.392	86.2	− 4	2062
1944	9.8		37	46.22	3	2.9439	0.0017	− 6	1	31.0	3	8.298	0.387	87.2	− 5	2223
1945	9		37	58.82	1	2.9607	0.0019	− 5	14	34.8	1	8.315	0.389	95.2	− 5	2224
1946	8.9	7	38	0.27	2	+ 2.9576	− 0.0019	− 5	23	14.6	2	− 8.317	− 0.389	83.2	− 5	2225
1947	8.9		38	1.24	2	2.9232	0.0016	− 6	59	28.2	2	8.318	0.384	84.2	− 6	2260
1948	8		38	2.40	4	2.9353	0.0017	− 6	25	44.1	2	8.319	0.386	86.0; 84.7	− 6	2261
1949	8.9		38	10.35	4	3.0090	0.0024	− 2	57	55.3	4	8.330	0.396	88.9	− 2	2263
1950	8.9		38	14.44	1	2.9537	0.0018	− 5	34	13.8	1	8.335	0.388	86.2	− 5	2229

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		h m s		s	s	° ' "		"	"		°
1951	8.9	7 38 17.50	3	+ 2.9825	— 0.0021	— 4 13 31.0	3	— 8.339	— 0.392	85.2	— 4 2067
1952	9.8	38 23.08	3	3.0142	0.0024	— 2 44 12.7	2	8.347	0.396	85.8; 89.7	— 2 2265
1953	8	38 23.55	1	2.9708	0.0020	— 4 46 35.0	1	8.347	0.390	86.2	— 4 2069
1954	8.9	38 29.68	3	2.9358	0.0017	— 6 24 35.4	2	8.356	0.386	85.9; 87.2	— 6 2263
1955	9.8	38 32.11	1	2.9642	0.0019	— 5 5 11.0	1	8.359	0.389	80.2	— 5 2230
1956	9	7 38 59.54	1	+ 2.9312	— 0.0017	— 6 37 50.6	1	— 8.395	— 0.385	87.2	— 6 2268
1957	8.9	39 7.94	5	3.0007	0.0023	— 3 22 41.1	5	8.406	0.394	86.8	— 3 2044
1958	8.9	39 8.51	2	2.9414	0.0018	— 6 9 17.8	2	8.407	0.386	89.7	— 6 2269
1959	8	39 48.36	2	2.9580	0.0019	— 5 23 20.0	2	8.460	0.387	83.2	— 5 2237
1960	6.7	40 9.78	3	2.9348	0.0017	— 6 28 39.1	2	8.488	0.384	85.9	— 6 2281
1961	8	7 40 11.23	5	+ 2.9947	— 0.0023	— 3 40 13.0	2	— 8.490	— 0.392	85.4; 79.7	— 3 2053
1962	8.9	40 36.25	3	2.9632	0.0020	— 5 9 16.4	3	8.523	0.388	87.2	— 5 2242
1963	8	40 41.23	3	2.9441	0.0018	— 6 2 53.2	3	8.529	0.385	85.2	— 5 2248
1964	8.9	40 44.57	3	3.0004	0.0024	— 3 24 1.9	1	8.534	0.392	82.9; 79.2	— 3 2060
1965	8	40 45.61	6	2.9963	0.0023	— 3 35 43.3	4	8.535	0.392	86.5; 87.7	— 3 2061
1966	9.8	7 40 54.21	2	+ 2.9729	— 0.0021	— 4 41 56.0	2	— 8.547	— 0.389	89.2	— 4 2085
1967	8.9	40 56.43	3	3.0008	0.0024	— 3 23 13.7	2	8.550	0.392	86.8; 88.2	— 3 2062
1968	9.8	40 59.08	3	2.9737	0.0021	— 4 39 44.5	1	8.553	0.389	88.2; 86.2	— 4 2086
1969	8.9	41 9.67	1	2.9338	0.0017	— 6 32 25.1	1	8.567	0.383	87.2	— 6 2290
1970	9.8	41 22.06	1	2.9578	0.0020	— 5 24 57.7	1	8.583	0.386	92.2	— 5 2246
1971	9	7 41 43.16	1	+ 2.9605	— 0.0020	— 5 17 24.8	1	— 8.611	— 0.386	93.2	— 5 2249
1972	9	41 52.33	2	2.9366	0.0018	— 6 24 53.0	2	8.623	0.383	87.2	— 6 2299
1973	9.8	41 59.60	4	3.0237	0.0026	— 2 18 21.9	4	8.633	0.394	90.7	— 2 2296
1974	9.8	42 6.99	5	3.0161	0.0025	— 2 40 15.6	3	8.643	0.393	85.2; 84.5	— 2 2298
1975	8.9	42 10.65	2	2.9540	0.0019	— 5 36 6.2	2	8.647	0.385	89.7	— 5 2255
1976	8.7	7 42 23.85	4	+ 2.9355	— 0.0018	— 6 28 37.7	2	— 8.665	— 0.382	86.0; 84.7	— 6 2305
1977	8.9	42 25.38	1	2.9777	0.0022	— 4 29 21.6	1	8.667	0.388	85.2	— 4 2092
1978	8.9	42 30.27	3	2.9594	0.0020	— 5 21 17.4	2	8.673	0.385	86.5; 83.2	— 5 2257
1979	8	42 45.19	1	2.9506	0.0019	— 5 46 14.0	1	8.693	0.384	80.2	— 5 2258
1980	9.8	42 57.83	2	3.0181	0.0026	— 2 34 42.9	1	8.709	0.393	89.2; 94.1	— 2 2301
1981	8.9	7 43 2.69	4	+ 3.0097	— 0.0025	— 2 58 32.0	4	— 8.716	— 0.392	88.9	— 2 2302
1982	9	43 4.89	1	2.9682	0.0021	— 4 56 43.9	1	8.719	0.386	86.2	— 4 2095
1983	8	43 14.56	2	2.9806	0.0022	— 4 21 36.9	2	8.731	0.388	83.2	— 4 2097
1984	9.8	43 18.79	2	2.9738	0.0022	— 4 41 0.2	2	8.737	0.387	86.2	— 4 2098
1985	9	43 30.77	1	2.9364	0.0018	— 6 26 49.4	1	8.753	0.381	87.2	— 6 2315
1986	8	7 43 53.00	7	+ 3.0222	— 0.0027	— 2 23 26.6	6	— 8.782	— 0.392	89.0	— 2 2306
1987	9.8	44 0.94	1	2.9832	0.0023	— 4 14 27.1	1	8.792	0.387	90.2	— 4 2102
1988	8.9	44 8.64	7	3.0222	0.0027	— 2 23 26.8	2	8.802	0.392	90.3; 91.7	— 2 2307
1989	8	44 30.76	1	3.0032	0.0025	— 3 17 41.7	1	8.831	0.389	79.2	— 3 2087
1990	8	44 35.08	1	3.0091	0.0026	— 3 1 4.0	1	8.837	0.390	84.2	— 2 2311
1991	9	7 44 38.23	1	+ 2.9347	— 0.0018	— 6 32 41.9	1	— 8.841	— 0.380	87.2	— 6 2325
1992	8	44 42.48	4	2.9568	0.0020	— 5 30 0.6	4	8.847	0.383	86.2	— 5 2267
1993	8.9	44 49.95	1	3.0264	0.0027	— 2 11 31.3	1	8.856	0.392	78.1	— 2 2315
1994	8	44 50.80	4	2.9718	0.0022	— 4 47 35.4	4	8.858	0.385	86.2	— 4 2104
1995	9	44 52.48	3	2.9656	0.0021	— 5 5 9.2	2	8.860	0.384	91.2	— 5 2270
1996	8	7 44 58.02	3	+ 3.0183	— 0.0026	— 2 49 6.4	3	— 8.868	— 0.390	84.2	— 2 2316
1997	9	45 0.28	1	2.9358	0.0018	— 6 29 50.9	1	8.870	0.380	87.2	— 6 2328
1998	9.8	45 1.90	1	2.9955	0.0024	— 3 40 7.5	1	8.872	0.388	79.2	— 3 2095
1999	8	45 40.29	1	2.9321	0.0018	— 6 40 42.9	1	8.922	0.379	84.2	— 6 2334
2000	8	45 42.07	1	3.0201	0.0027	— 2 29 50.1	1	8.923	0.391	84.2	— 2 2317

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		h m s		s	s	° ' "		"	"		°
2001	7	7 46 7.27	2	+ 3.0149	— 0.0027	— 2 44 54.9	2	— 8.958	— 0.390	89.6	— 2 2322
2002	8.9	46 27.67	7	2.9362	0.0019	— 6 29 51.5	7	8.984	0.379	87.3	— 6 2339
2003	8	46 32.26	2	3.0239	0.0028	— 2 18 53.0	2	8.990	0.390	89.6	— 2 2325
2004	8	46 40.41	2	2.9548	0.0020	— 5 37 0.5	2	9.001	0.381	89.2	— 5 2277
2005	8	46 45.00	4	2.9804	0.0023	— 4 23 55.2	4	9.007	0.384	83.0	— 4 2124
2006	8.9	7 46 49.43	4	+ 2.9972	— 0.0025	— 3 36 5.0	2	— 9.012	— 0.387	85.7; 82.7	— 3 2106
2007	6	46 52.45	3	2.9654	0.0022	— 5 7 10.9	3	9.016	0.382	87.2	— 5 2280
2008	9.8	46 53.97	2	2.9964	0.0025	— 3 38 12.2	2	9.018	0.386	88.7	— 3 2107
2009	9.8	47 50.76	3	3.0017	0.0026	— 3 23 29.5	3	9.092	0.386	85.2	— 3 2110
2010	8	47 54.73	2	2.9524	0.0020	— 5 44 54.0	2	9.097	0.380	83.2	— 5 2284
2011	8	7 48 12.34	3	+ 3.0051	— 0.0026	— 3 14 1.9	3	— 9.120	— 0.386	88.9	— 3 2112
2012	8	48 30.98	5	3.0207	0.0028	— 2 29 0.8	5	9.144	0.388	86.8	— 2 2341
2013	9	48 45.45	1	2.9436	0.0020	— 6 10 46.5	1	9.163	0.378	87.2	— 6 2357
2014	9	48 47.01	1	2.9451	0.0020	— 6 6 32.3	1	9.165	0.378	87.1	— 6 2358
2015	9	49 17.34	1	2.9344	0.0019	— 6 37 23.5	1	9.204	0.376	87.2	— 6 2360
2016	8.9	7 49 18.16	1	+ 3.0166	— 0.0028	— 2 41 15.0	1	— 9.206	— 0.387	85.2	— 2 2120
2017	9.8	49 29.14	3	2.9818	0.0024	— 4 21 38.3	3	9.220	0.382	83.9	— 4 2143
2018	8	49 29.66	1	3.0335	0.0030	— 1 52 30.9	1	9.220	0.389	89.2	— 1 1890
2019	9.8	49 32.92	1	2.9643	0.0022	— 5 12 2.4	1	9.225	0.380	93.2	— —
2020	8	50 0.98	5	2.9433	0.0020	— 6 12 35.5	5	9.261	0.377	84.8	— 6 2367
2021	9.8	7 50 2.06	3	+ 2.9714	— 0.0023	— 4 51 57.8	3	— 9.262	— 0.380	86.2	— 4 2149
2022	8.9	50 4.91	3	2.9582	0.0021	— 5 30 3.4	2	9.266	0.379	86.2	— 5 2297
2023	8.9	50 10.52	1	3.0077	0.0027	— 3 7 20.2	1	9.273	0.385	79.2	— 3 2124
2024	9.8	50 11.65	3	2.9453	0.0020	— 6 6 58.8	3	9.275	0.377	88.9	— 6 2368
2025	9.8	50 27.64	1	2.9621	0.0022	— 5 18 54.2	1	9.296	0.379	86.2	— 5 2301
2026	9.8	7 50 45.45	3	+ 2.9463	— 0.0020	— 6 4 38.5	2	— 9.318	— 0.376	87.5; 84.7	— 6 2371
2027	8	50 46.85	2	2.9526	0.0021	— 5 46 30.9	2	9.320	0.377	83.2	— 5 2303
2028	8.7	50 53.90	4	3.0075	0.0026	— 3 8 7.4	3	9.329	0.384	88.9; 92.2	— 3 2129
2029	9	51 8.34	1	2.9896	0.0025	— 4 0 5.2	1	9.348	0.382	90.2	— 3 2133
2030	9	51 13.89	1	2.9847	0.0019	— 6 38 14.4	1	9.355	0.375	87.2	— 6 2375
2031	8	7 51 25.52	6	+ 3.0181	— 0.0028	— 2 37 39.1	6	— 9.370	— 0.385	88.0	— 2 2360
2032	8.9	51 55.95	6	2.9424	0.0020	— 6 16 42.1	4	9.409	0.375	88.4; 87.5	— 6 2378
2033	9.8	52 28.11	2	2.9533	0.0022	— 5 45 46.5	2	9.451	0.376	83.2	— 5 2315
2034	8	52 30.22	3	3.0040	0.0027	— 3 18 54.0	3	9.454	0.382	85.2	— 3 2146
2035	8	52 30.57	5	2.9467	0.0021	— 6 4 56.6	5	9.454	0.375	84.6	— 6 2383
2036	8	7 52 35.14	5	+ 2.9993	— 0.0026	— 3 32 52.5	5	— 9.460	— 0.382	85.8	— 3 2147
2037	9	52 36.63	1	2.9345	0.0019	— 6 40 7.8	1	9.462	0.373	87.2	— 6 2386
2038	9.8	52 48.81	1	2.9617	0.0022	— 5 21 58.8	1	9.478	0.377	86.2	— 5 2318
2039	8	52 50.41	3	2.9773	0.0024	— 4 36 42.7	1	9.480	0.379	89.2; 86.2	— 4 2158
2040	9.8	53 1.99	1	2.9239	0.0019	— 7 11 3.9	1	9.494	0.372	84.2	— 7 2287
2041	9.8	7 53 2.63	2	+ 2.9414	— 0.0020	— 6 20 51.5	1	— 9.495	— 0.374	90.2; 93.2	— 6 2388
2042	7.8	53 5.30	2	2.9899	0.0025	— 4 0 25.6	2	9.499	0.380	87.7	— 3 2151
2043	9.8	53 11.62	1	2.9708	0.0023	— 4 55 40.1	1	9.507	0.377	80.2	— 4 2159
2044	8.9	53 25.59	2	2.9241	0.0019	— 7 10 46.1	1	9.525	0.371	85.2; 86.2	— 7 2291
2045	8.9	53 27.66	2	2.9776	0.0024	— 4 36 8.6	2	9.527	0.378	90.7	— 4 2160
2046	9.8	7 53 28.32	1	+ 2.9680	— 0.0023	— 5 4 11.1	1	— 9.528	— 0.377	93.2	— 5 2321
2047	8.9	53 42.08	4	2.9424	0.0021	— 6 18 11.2	2	9.546	0.373	87.7; 85.9	— 6 2397
2048	5	53 44.44	3	3.0035	0.0027	— 3 21 9.2	2	9.549	0.381	84.9; 87.7	— 3 2157
2049	8.9	53 44.52	4	2.9723	0.0024	— 4 51 48.8	2	9.549	0.377	85.4; 90.7	— 4 2162
2050	9.8	53 50.51	1	2.9286	0.0019	— 6 58 19.0	1	9.557	0.371	84.2	— 6 2400

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		h	m	s		s	s	°	'	"		"	"		°
2051	9.8	7	54	20.73	4	+ 3.0080	— 0.0028	— 3	8	22.9	3	— 9.595	— 0.381	88.0; 85.2	— 3 2162
2052	8.9		54	40.68	1	2.9849	0.0025	— 4	15	47.1	1	9.621	0.378	85.2	— 4 2168
2053	7		54	42.12	4	3.0200	0.0029	— 2	33	12.9	4	9.623	0.382	84.2	— 2 2379
2054	8.9		54	42.95	2	2.9739	0.0024	— 4	47	51.6	2	9.624	0.376	83.2	— 4 2169
2055	9.8		54	48.47	1	2.9864	0.0026	— 4	11	30.8	1	9.631	0.378	80.2	— 4 2170
2056	8.9	7	54	49.23	2	+ 2.9333	— 0.0019	— 6	45	40.2	2	— 9.632	— 0.371	85.7	— 6 2404
2057	9.8		54	51.26	3	2.9555	0.0022	— 5	41	32.3	3	9.634	0.374	86.2	— 5 2328
2058	7.6		55	10.40	5	2.9474	0.0021	— 6	5	17.0	4	9.659	0.373	86.0; 84.2	— 6 2407
2059	8		55	12.97	6	3.0071	0.0028	— 3	11	19.3	1	9.662	0.380	89.7	— 3 2171
2060	8.9		55	51.62	8	3.0067	0.0028	— 3	12	49.6	3	9.712	0.379	89.3	— 3 2176
2061	8.9	7	56	0.15	5	+ 3.0325	— 0.0031	— 1	57	2.2	3	— 9.722	— 0.383	86.7	— 1 1926
2062	8.9		56	1.14	3	3.0182	0.0029	— 2	38	56.7	3	9.724	0.381	89.2	— 2 2383
2063	9.8		56	16.34	1	2.9237	0.0019	— 7	15	2.1	1	9.743	0.368	84.2	— 7 2321
2064	7.6		56	32.05	7	2.9495	0.0022	— 6	0	13.0	2	9.763	0.372	87.9; 89.7	— 5 2339
2065	9.8		56	34.44	2	2.9422	0.0021	— 6	21	38.8	2	9.766	0.370	85.2	— 6 2419
2066	8.9	7	56	34.47	2	+ 2.9911	— 0.0026	— 3	58	53.0	2	— 9.766	— 0.377	87.7	— 3 2180
2067	8		56	36.78	5	3.0302	0.0031	— 2	3	52.8	2	9.769	0.382	86.7	— 1 1928
2068	9.8		56	37.08	2	2.9602	0.0023	— 5	29	2.0	2	9.770	0.373	83.2	— 5 2340
2069	7		56	52.79	9	2.9499	0.0022	— 5	59	21.4	3	9.790	0.371	89.4; 91.2	— 5 2341
2070	9.8		57	6.26	3	2.9493	0.0022	— 6	1	21.1	1	9.807	0.371	89.5; 93.2	— 5 2342
2071	8.9	7	57	24.92	1	+ 2.9568	— 0.0023	— 5	41	9.1	1	— 9.830	— 0.371	80.2	— 5 2344
2072	8.9		57	28.32	4	3.0085	0.0029	— 3	8	2.8	2	9.835	0.378	93.7	— 3 2191
2073	9		57	28.84	1	2.9599	0.0023	— 5	30	43.4	1	9.835	0.372	92.2	— 5 2345
2074	9.8		57	42.55	1	2.9465	0.0022	— 6	9	59.8	1	9.853	0.370	87.2	— 6 2407
2075	9.8		57	51.68	2	2.9510	0.0022	— 5	57	6.2	2	9.864	0.370	87.2	— 5 2348
2076	9.8	7	58	5.82	2	+ 2.9996	— 0.0028	— 3	34	40.1	2	— 9.882	— 0.376	82.7	— 3 2195
2077	8		58	12.67	4	2.9810	0.0026	— 4	29	23.4	4	9.891	0.374	86.0	— 4 2197
2078	8.9		58	20.04	6	3.0071	0.0029	— 3	12	33.4	4	9.900	0.377	88.4	— 3 2196
2079	8.9		58	39.28	3	2.9720	0.0025	— 4	56	2.7	2	9.925	0.372	87.2	— 4 2201
2080	9.8		58	42.42	1	3.0221	0.0030	— 2	28	39.1	1	9.929	0.379	78.2	— 2 2412
2081	9	7	58	50.77	1	+ 3.0197	— 0.0030	— 2	35	47.9	1	— 9.937	— 0.378	89.2	— 2 2413
2082	8.7		58	53.27	2	2.9692	0.0024	— 5	4	26.7	2	9.942	0.372	89.7	— 5 2353
2083	9.8		58	53.42	3	2.9324	0.0020	— 6	52	13.3	3	9.943	0.367	84.2	— 6 2440
2084	7		58	58.11	11	3.0083	0.0029	— 3	9	25.6	6	9.949	0.377	87.2; 84.7	— 3 2202
2085	8.9		59	16.44	2	2.9875	0.0026	— 4	11	0.8	2	9.972	0.374	82.7	— 4 2208
2086	8.9	7	59	37.22	3	+ 2.9769	— 0.0025	— 4	42	19.5	3	— 9.998	— 0.372	87.2	— 4 2210
2087	8.9		59	42.34	2	2.9639	0.0024	— 5	20	50.2	2	10.004	0.370	83.2	— 5 2357
2088	8.9		59	55.95	2	2.9313	0.0021	— 6	56	32.6	2	10.022	0.366	85.2	— 6 2451
2089	9.8		59	56.60	2	2.9485	0.0022	— 6	6	15.0	2	10.023	0.368	90.6	— 6 2450
2090	8	8	0	22.93	3	3.0309	0.0032	— 2	3	3.0	3	10.056	0.378	82.4	— 1 1955
2091	8.9	8	0	35.43	1	+ 2.9787	— 0.0026	— 4	37	46.3	1	— 10.072	— 0.371	85.2	— 4 2218
2092	9		0	52.72	2	3.0192	0.0031	— 2	38	6.6	2	10.093	0.376	86.7	— 2 2430
2093	8		1	4.16	2	2.9983	0.0028	— 3	40	11.3	2	10.108	0.373	82.7	— 3 2211
2094	9.8		1	14.19	1	3.0113	0.0030	— 3	1	45.5	1	10.120	0.375	94.1	— 2 2435
2095	9.8		1	35.68	1	2.9889	0.0027	— 4	8	17.1	1	10.148	0.372	85.2	— 4 2225
2096	9	8	1	37.27	1	+ 2.9616	— 0.0024	— 5	29	6.1	1	— 10.150	— 0.368	86.2	— 5 2368
2097	8.7		1	40.24	4	3.0107	0.0030	— 3	3	38.8	3	10.153	0.374	87.2; 84.9	— 2 2437
2098	8		1	45.34	2	2.9554	0.0023	— 5	47	40.9	2	10.160	0.367	83.2	— 5 2371
2099	9.8		1	51.89	1	2.9316	0.0020	— 6	57	55.3	1	10.168	0.364	84.2	— 6 2470
2100	8		1	59.93	3	2.9913	0.0027	— 4	1	24.6	2	10.178	0.372	89.2; 91.2	— 3 2217

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		h	m	s		s	s	°	'	"		"	"		°	
2101	8	8	2	0.22	2	+ 3.0043	− 0.0029	− 3	22	55.9	2	− 10.178	− 0.373	81.7	− 3	2216
2102	9		2	7.40	2	2.9383	0.0021	− 6	38	14.8	2	10.187	0.365	85.2	− 6	2473
2103	5		2	33.77	4	3.0194	0.0031	− 2	38	7.8	4	10.220	0.374	84.4	− 2	2450
2104	8		3	17.45	2	2.9880	0.0027	− 4	12	12.9	2	10.275	0.370	83.2	− 4	2235
2105	9.8		3	18.46	3	2.9445	0.0022	− 6	21	8.6	3	10.276	0.364	87.9	− 6	2482
2106	8.9	8	3	42.49	1	+ 2.9564	− 0.0023	− 5	46	31.2	1	− 10.307	− 0.365	86.2	− 5	2381
2107	8		3	50.68	2	2.9962	0.0028	− 3	48	1.7	2	10.317	0.370	82.7	− 3	2228
2108	9		3	52.42	1	2.9913	0.0028	− 4	2	35.5	1	10.319	0.370	90.2	− 3	2229
2109	9.8		4	0.99	1	2.9670	0.0025	− 5	15	9.2	1	10.330	0.366	93.2	− 5	2386
2110	8.9		4	17.11	1	3.0071	0.0030	− 3	15	36.2	1	10.350	0.371	84.2	− 3	2232
2111	8.9	8	5	3.60	2	+ 3.0037	− 000.29	− 3	26	11.2	2	− 10.408	− 0.370	85.7	− 3	2236
2112	7		5	5.68	4	2.9443	000.22	− 6	23	39.2	2	10.410	0.362	87.5; 89.7	− 6	2494
2113	9		5	11.60	2	3.0200	000.32	− 2	37	14.2	2	10.418	0.372	86.7	− 2	2471
2114	9		5	13.56	2	2.9913	000.28	− 4	3	35.4	2	10.420	0.368	91.2	− 3	2239
2115	8.9		5	15.36	4	3.0275	000.33	− 2	15	1.7	4	10.422	0.373	84.4	− 2	2472
2116	8	8	5	22.72	3	+ 2.9353	− 000.21	− 6	50	42.3	3	− 10.432	− 0.361	85.6	− 6	2498
2117	8		5	39.36	5	2.9592	000.24	− 5	39	46.4	3	10.452	0.364	87.6; 86.2	− 5	2395
2118	9		5	49.05	2	3.0218	000.32	− 2	32	9.0	1	10.464	0.371	86.2; 94.2	− 2	2475
2119	9		6	12.85	1	2.9508	000.23	− 6	5	27.5	1	10.494	0.362	87.1	− 6	2506
2120	8		6	13.59	5	2.9579	000.24	− 5	44	12.6	3	10.495	0.363	86.4	− 5	2399
2121	8.9	8	6	44.21	2	+ 3.0271	− 000.33	− 2	16	34.2	1	− 10.533	− 0.371	84.6	− 2	2480
2122	8		6	58.73	4	2.9359	000.21	− 6	50	35.6	4	10.551	0.360	85.7	− 6	2514
2123	9.8		7	24.16	1	2.9690	000.25	− 5	11	52.3	1	10.582	0.363	93.2	− 5	2420
2124	8.9		7	39.52	1	2.9315	000.21	− 7	4	29.3	1	10.602	0.358	84.2	− 6	2518
2125	8.7		7	40.83	3	2.9484	000.23	− 6	14	3.0	2	10.603	0.360	89.2; 90.2	− 6	2517
2126	9.8	8	7	51.09	1	+ 2.9654	− 000.25	− 5	23	13.0	1	− 10.616	− 0.362	96.2	− 5	2435
2127	8.9		7	56.84	2	2.9507	000.23	− 6	7	30.7	2	10.623	0.360	84.7	− 6	2521
2128	9		8	10.21	2	3.0228	000.32	− 2	30	13.4	2	10.640	0.369	90.7	− 2	2489
2129	8		8	21.87	1	2.9626	000.25	− 5	32	12.2	1	10.654	0.361	85.2	− 5	2447
2130	8		8	23.94	4	3.0037	000.30	− 3	28	1.2	4	10.656	0.366	82.9	− 3	2268
2131	8	8	9	14.87	1	+ 2.9426	− 000.22	− 6	32	56.4	1	− 10.719	− 0.358	93.2	− 6	2528
2132	9		9	17.23	1	2.9546	000.24	− 5	57	1.6	1	10.722	0.360	87.1	− 5	2462
2133	8		9	39.28	1	2.9386	000.22	− 6	45	35.0	1	10.749	0.357	86.2	− 6	2531
2134	8.9		9	41.83	2	2.9606	000.25	− 5	39	20.2	2	10.752	0.360	86.2	− 5	2463
2135	8.9		9	56.35	1	2.9345	000.22	− 6	58	10.8	1	10.770	0.356	91.2	− 6	2533
2136	9.8	8	10	17.75	1	+ 2.9661	− 000.25	− 5	23	22.1	1	− 10.797	− 0.360	96.2	− 5	2470
2137	9		10	23.04	1	3.0228	000.33	− 2	31	7.8	1	10.803	0.367	94.1	− 2	2503
2138	7.8		10	25.87	1	3.0161	000.32	− 2	51	29.6	1	10.807	0.366	78.2	− 2	2504
2139	8		11	1.01	3	2.9730	000.26	− 5	3	3.3	2	10.850	0.360	87.5; 88.7	− 4	2284
2140	8.9		11	7.82	1	2.9534	000.24	− 6	2	30.4	1	10.858	0.358	86.2	− 5	2474
2141	7	8	11	8.47	2	+ 3.0135	− 000.32	− 2	59	40.1	1	− 10.859	− 0.365	82.2; 84.2	− 2	2509
2142	8		11	11.80	1	3.0165	000.32	− 2	50	45.9	1	10.863	0.365	80.2	− 2	2511
2143	9		11	13.39	1	2.9958	000.29	− 3	53	51.2	1	10.865	0.363	92.2	− 3	2286
2144	8		11	19.34	3	2.9741	000.27	− 4	59	58.5	1	10.872	0.360	87.5; 85.2	− 4	2288
2145	7.8		11	27.32	2	3.0186	000.33	− 2	44	13.0	2	10.882	0.365	85.2	− 2	2512
2146	8.9	8	11	30.59	1	+ 3.0258	− 000.34	− 2	22	28.9	1	− 10.886	− 0.365	84.2	− 2	2513
2147	8.7?		11	30.71	1	3.0016	000.30	− 3	36	14.2	1	10.886	0.363	79.2	− 3	2288
2148	9.8		11	32.35	1	2.9851	000.28	− 4	26	29.8	1	10.888	0.361	86.2	− 4	2291
2149	9.8		11	46.50	2	2.9939	000.29	− 3	59	57.2	1	10.906	0.362	91.2; 90.2	− 3	2290
2150	8.9		11	58.99	4	2.9587	000.24	− 6	2	30.7	4	10.921	0.357	88.4	− 5	2482

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		h	m	s		s	s	°	'	"		"	"		°	
2151	7	8	12	33.23	2	+2.9309	−0.0021	−7	11	59.0	1	−10.963	−0.353	86.2	−7	2423
2152	9.8		12	41.42	1	2.9785	0.0027	−4	47	32.4	1	10.973	0.359	95.2	−4	2293
2153	8.9		12	48.97	1	3.0147	0.0032	−2	56	52.7	1	10.982	0.363	80.2	−2	2522
2154	9		12	54.74	3	3.0232	0.0033	−2	30	50.7	3	10.989	0.364	91.9	−2	2525
2155	9.8		13	8.00	3	2.9486	0.0023	−6	19	2.4	3	11.005	0.355	87.6	−6	2354
2156	8.9	8	13	13.68	2	+2.9325	−0.0021	−7	7	43.7	1	−11.012	−0.353	88.7; 91.2	−7	2431
2157	9.8		13	18.58	1	2.9789	0.0027	−4	46	46.1	1	11.018	0.358	92.2	−4	2300
2158	8		13	19.05	4	2.9698	0.0026	−5	14	50.1	4	11.019	0.357	90.5	−5	2489
2159	7.8		13	22.85	3	2.9316	0.0021	−7	11	1.4	2	11.023	0.352	87.2; 85.2	−7	2433
2160	8.9		13	44.27	1	2.9360	0.0022	−6	58	1.2	1	11.049	0.353	83.2	−6	2356
2161	8	8	14	0.85	3	+3.0284	−0.0034	−2	24	30.5	3	−11.069	−0.363	83.9	−2	2529
2162	7		14	20.08	3	2.9758	0.0027	−4	57	4.8	3	11.093	0.357	88.9	−4	2303
2163	9.8		14	20.43	1	3.0285	0.0034	−2	15	22.9	1	11.093	0.363	84.2	−2	2531
2164	7		14	35.82	2	2.9505	0.0024	−6	14	58.7	2	11.112	0.353	84.7	−6	2560
2165	8.9		14	38.88	3	2.9858	0.0028	−4	26	42.2	2	11.116	0.358	87.2	−4	2305
2166	8	8	14	40.58	3	+2.9529	−0.0024	−6	7	29.7	3	−11.118	−0.354	88.8	−6	2561
2167	8.9		14	43.40	3	2.9792	0.0028	−4	47	14.2	2	11.121	0.357	89.9; 88.7	−4	2306
2168	9.8		14	49.34	2	2.9372	0.0022	−6	55	37.4	2	11.128	0.352	84.8	−6	2563
2169	8		14	54.72	4	2.9850	0.0028	−4	29	19.7	2	11.135	0.357	85.2; 82.7	−4	2309
2170	9.8		15	4.08	2	2.9583	0.0025	−5	51	29.0	2	11.146	0.354	89.7	−5	2502
2171	9.8	8	15	8.64	1	+2.9965	−0.0030	−3	54	13.7	1	−11.152	−0.358	92.2	−3	2315
2172	9		15	31.95	2	3.0248	0.0034	−2	27	4.1	2	11.180	0.362	90.7	−2	2538
2173	9.8		15	32.76	1	2.9727	0.0027	−5	7	53.7	1	11.181	0.355	93.2	−5	2504
2174	8.9		15	36.78	1	3.0188	0.0033	−2	45	43.5	1	11.186	0.361	80.2	−2	2539
2175	8.9		15	50.13	5	3.0230	0.0034	−2	32	57.4	3	11.202	0.361	88.0; 86.2	−2	2542
2176	6	8	16	35.63	3	+2.9600	−0.0025	−5	47	49.7	3	−11.257	−0.352	92.9	−5	2512
2177	8.9		16	53.08	1	3.0226	0.0034	−2	34	33.0	1	11.278	0.360	78.2	−2	2546
2178	8		16	55.40	3	2.9501	0.0024	−6	18	38.5	3	11.281	0.351	87.6	−6	2571
2179	8.9		16	57.13	1	2.9978	0.0030	−3	51	36.2	1	11.283	0.356	80.2	−3	2324
2180	6.7		17	2.34	4	2.9335	0.0022	−7	9	35.6	4	11.289	0.349	87.0	−7	2452
2181	9	8	17	29.51	1	+2.9803	−0.0028	−4	46	11.3	1	−11.322	−0.354	86.2	−4	2320
2182	8.9		17	31.32	2	2.9944	0.0030	−4	2	21.0	2	11.324	0.356	87.7	−3	2327
2183	8.9		17	41.11	1	2.9473	0.0023	−6	28	11.0	1	11.336	0.350	86.2	−6	2576
2184	8.9		17	57.85	4	3.0229	0.0034	−2	34	16.8	3	11.356	0.358	84.2; 86.2	−2	2557
2185	8.9		17	59.94	2	2.9578	0.0025	−5	56	4.8	1	11.358	0.351	89.2; 82.2	−5	2518
2186	8	8	18	5.63	2	+2.9395	−0.0022	−6	52	41.3	3	−11.365	−0.348	84.8	−6	2579
2187	8		18	15.52	3	2.9703	0.0027	−5	17	35.4	3	11.377	0.352	89.2	−5	2519
2188	8.9		18	19.14	2	3.0193	0.0034	−2	45	28.8	2	11.382	0.358	87.2	−2	2559
2189	6		18	36.16	1	3.0077	0.0032	−3	21	46.4	1	11.402	0.356	84.2	−3	2333
2190	7		18	37.75	4	2.9891	0.0029	−4	19	41.8	4	11.404	0.354	87.2	−4	2328
2191	8.9	8	18	50.80	2	+3.0143	−0.0033	−3	1	27.6	2	−11.420	−0.356	85.7	−2	2561
2192	8.9		19	13.96	4	2.9718	0.0026	−5	14	3.8	4	11.447	0.351	89.9	−5	2522
2193	7.8		19	22.13	1	2.9419	0.0023	−6	46	53.6	1	11.457	0.347	86.2	−6	2585
2194	5		19	39.87	1	3.0050	0.0032	−3	31	0.6	1	11.478	0.354	84.2	−3	2339
2195	8.9		19	47.23	2	3.0130	0.0033	−3	5	56.6	1	11.487	0.355	82.2; 84.2	−3	2340
2196	9.8	8	20	7.69	1	+2.9739	−0.0027	−5	8	22.8	1	−11.512	−0.350	86.2	−5	2525
2197	9.8		20	14.81	1	2.9697	0.0027	−5	21	25.7	1	11.520	0.350	86.2	−5	2526
2198	8		20	25.86	2	3.0275	0.0035	−2	20	44.3	2	11.533	0.356	89.2	−2	2572
2199	8.9		20	28.34	8	2.9558	0.0025	−6	4	54.3	6	11.536	0.348	88.0; 89.2	−6	2591
2200	8		20	59.79	4	2.9612	0.0026	−5	48	39.2	4	11.574	0.348	89.5	−5	2529

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		h	m	s		s	s	°	'	"		"	"		°	
2201	8	8	21	14.45	1	+ 3.0127	− 0.0033	− 3	7	52.1	1	− 11.591	− 0.354	91.2	− 3	2353
2202	6		21	22.82	5	2.9574	0.0025	− 6	0	51.0	3	11.601	0.347	84.0	− 5	2530
2203	8.9		21	27.11	3	3.0219	0.0034	− 2	38	50.5	3	11.606	0.354	87.5	− 2	2577
2204	7.8		21	41.47	6	2.9958	0.0030	− 4	1	10.2	6	11.623	0.351	87.4	− 3	2356
2205	8		21	53.15	3	2.9420	0.0023	− 6	49	33.2	3	11.637	0.344	83.9	− 6	2599
2206	9.8	8	22	4.10	2	+ 2.9720	− 0.0027	− 5	16	13.2	1	− 11.650	− 0.348	89.7; 86.2	− 5	2537
2207	8		22	23.80	1	2.9985	0.0031	− 3	53	16.1	1	11.674	0.351	92.2	− 3	2360
2208	7		22	25.57	3	3.0321	0.0036	− 2	7	16.2	3	11.676	0.355	87.9	− 2	2581
2209	8		22	37.05	3	2.9400	0.0022	− 6	56	53.7	3	11.689	0.343	87.2	− 6	2606
2210	8.9		22	43.35	3	2.9710	0.0027	− 5	19	47.6	1	11.697	0.347	88.5; 86.2	− 5	2541
2211	8	8	22	57.74	1	+ 2.9363	− 0.0022	− 7	8	48.2	1	− 11.714	− 0.342	84.2	− 7	2499
2212	8.9		23	16.79	6	2.9730	0.0027	− 5	14	1.2	4	11.736	0.347	90.5; 92.7	− 5	2545
2213	9		23	33.92	1	2.9657	0.0026	− 5	37	14.2	1	11.757	0.345	86.2	− 5	2547
2214	9.8		24	0.87	1	2.9963	0.0031	− 4	1	9.5	1	11.788	0.348	92.2	− 3	2372
2215	8		24	15.21	2	3.0350	0.0037	− 1	58	49.5	2	11.805	0.353	90.7	− 1	2058
2216	8.9	8	24	28.15	1	+ 2.9332	− 0.0022	− 7	20	32.3	1	− 11.821	− 0.340	86.2	− 7	2505
2217	8		24	31.08	2	2.9467	0.0024	− 6	38	20.3	2	11.824	0.342	84.8	− 6	2617
2218	8		24	41.59	2	2.9445	0.0023	− 6	45	24.8	1	11.836	0.342	84.3; 82.3	− 6	2620
2219	9		24	51.55	1	2.9589	0.0025	− 6	0	13.7	1	11.848	0.343	87.1	− 5	2557
2220	8.9		25	36.60	2	2.9653	0.0026	− 5	40	55.2	2	11.901	0.343	89.2	− 5	2563
2221	9.8	8	25	46.59	1	+ 2.9609	− 0.0026	− 5	54	58.0	1	− 11.913	− 0.342	93.2	− 5	2564
2222	9.8?		26	18.07	1	3.0305	0.0036	− 2	13	53.6	1	11.950	0.350	88.2	− 2	2604
2223	8		26	20.72	6	2.9840	0.0029	− 4	42	11.3	6	11.953	0.344	86.1	− 4	2377
2224	8		26	36.37	3	3.0204	0.0035	− 2	46	22.1	3	11.971	0.348	87.5	− 2	2608
2225	7		26	39.34	2	2.9692	0.0027	− 5	29	35.1	2	11.974	0.342	86.2	− 5	2566
2226	8.9	8	26	47.90	2	+ 3.0039	− 0.0032	− 3	39	9.8	2	− 11.984	− 0.346	82.2	− 3	2384
2227	9		27	5.00	2	2.9615	0.0026	− 5	54	32.0	2	12.004	0.341	89.7	− 5	2567
2228	8.7		27	13.31	4	2.9822	0.0029	− 4	48	55.4	2	12.014	0.343	89.7; 88.7	− 4	2379
2229	8.9		27	19.81	2	2.9803	0.0028	− 4	55	9.4	2	12.022	0.343	90.7	− 4	2380
2230	8		27	29.11	4	3.0244	0.0035	− 2	34	7.0	4	12.033	0.348	83.2	− 2	2613
2231	8	8	27	31.01	4	+ 2.9314	− 0.0021	− 7	30	20.7	4	− 12.035	− 0.337	87.0	− 7	2527
2232	9.8		27	38.61	2	2.9672	0.0027	− 5	36	51.9	1	12.044	0.341	89.2	− 5	2570
2233	8.9		27	39.27	1	3.0118	0.0033	− 3	14	39.2	1	12.044	0.346	91.2	− 3	2390
2234	8		27	53.20	3	2.9959	0.0031	− 4	5	34.0	3	12.061	0.344	84.9	− 4	2383
2235	8.9		27	59.28	3	2.9673	0.0027	− 5	37	11.1	2	12.068	0.340	91.6; 96.2	− 5	2572
2236	9.8	8	28	0.42	3	+ 2.9631	− 0.0026	− 5	50	37.6	2	− 12.069	− 0.340	90.9; 89.7	− 5	2573
2237	8		28	5.48	6	2.9588	0.0025	− 6	4	22.7	6	12.075	0.339	85.7	− 5	2574
2238	8.9		28	17.04	1	3.0192	0.0035	− 2	51	13.0	1	12.088	0.346	88.2	− 2	2615
2239	8.9		28	24.30	3	3.0204	0.0036	− 2	18	27.9	2	12.097	0.347	89.9; 91.2	− 2	2616
2240	8		28	34.51	5	3.0287	0.0036	− 2	20	38.3	3	12.109	0.347	88.0; 85.9	− 2	2618
2241	8.9	8	28	46.88	2	+ 3.0058	− 0.0032	− 3	44	32.2	2	− 12.123	− 0.344	82.2	− 3	2398
2242	9.8		28	51.80	1	2.9347	0.0022	− 7	21	57.1	1	12.129	0.336	86.2	− 7	2535
2243	9		29	9.82	1	2.9949	0.0031	− 4	9	50.9	1	12.150	0.342	92.2	− 4	2389
2244	9.8		29	22.08	2	2.9479	0.0024	− 6	40	40.3	2	12.164	0.337	84.3	− 6	2648
2245	9		29	26.32	1	2.9768	0.0028	− 5	8	10.3	1	12.169	0.340	86.2	− 5	2582
2246	6	8	29	36.89	3	+ 2.9812	− 0.0021	− 7	34	12.3	3	− 12.181	− 0.334	88.9	− 7	2540
2247	8.9		30	52.84	2	3.0048	0.0032	− 3	39	10.4	2	12.269	0.341	84.2	− 3	2408
2248	9.8		30	59.37	2	3.0246	0.0036	− 2	35	1.4	2	12.277	0.344	85.2	− 2	2632
2249	8.9		31	0.66	1	2.9443	0.0023	− 6	54	24.9	1	12.278	0.334	86.2	− 6	2658
2250	9.8		31	11.21	1	2.9351	0.0022	− 7	24	1.2	1	12.290	0.333	86.2	− 7	2552

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		h m s		s	s	° ′ ″		″	″		°
2251	8	8 31 25.99	8	+ 2.9604	— 0.0025	— 6 3 22.8	6	— 12.307	— 0.336	88.5	— 5 2590
2252	7	31 28.82	6	2.9890	0.0030	— 4 31 1.9	6	12.310	0.339	86.9	— 4 2401
2253	8.9	31 56.19	1	2.9540	0.0024	— 6 24 21.0	1	12.342	0.334	86.2	— 6 2663
2254	7	31 58.18	2	2.9544	0.0024	— 6 23 23.7	1	12.344	0.334	84.2; 82.3	— 6 2664
2255	8.9	32 10.83	1	2.9576	0.0025	— 6 18 11.7	1	12.358	0.334	96.2	— 6 2667
2256	6.7	8 32 25.53	2	+ 2.9572	— 0.0025	— 6 14 36.2	1	— 12.376	— 0.334	91.2; 86.2	— 6 2669
2257	8.9	32 39.61	3	2.9434	0.0023	— 6 59 36.0	3	12.392	0.332	84.2	— 6 2670
2258	9.8	32 42.79	4	2.9617	0.0026	— 6 0 26.8	3	12.396	0.334	87.0	— 5 2599
2259	8.9	32 45.50	4	2.9946	0.0031	— 4 13 47.3	4	12.399	0.338	92.4	— 4 2407
2260	9	32 49.45	4	3.0221	0.0035	— 2 44 18.7	4	12.403	0.341	89.2	— 2 2645
2261	8.9	8 32 56.45	2	+ 2.9665	— 0.0026	— 5 45 13.8	2	— 12.411	— 0.334	89.2	— 5 2602
2262	7.8	33 3.10	1	2.9541	0.0025	— 6 25 37.2	1	12.419	0.333	83.2	— 6 2671
2263	8.9	33 3.48	4	3.0244	0.0036	— 2 36 53.9	4	12.419	0.341	83.2	— 2 2647
2264	9.8	33 18.47	2	3.0126	0.0034	— 3 15 41.9	2	12.436	0.339	84.7	— 3 2425
2265	8	33 25.70	6	2.9910	0.0030	— 4 26 22.6	5	12.445	0.337	87.7	— 4 2410
2266	8	8 33 25.80	2	+ 3.0062	— 0.0033	— 3 36 30.3	1	— 12.445	— 0.338	84.2	— 3 2427
2267	8.9	33 27.39	1	2.9868	0.0030	— 4 39 54.3	1	12.446	0.336	84.2	— 4 2411
2268	8.9	34 13.25	6	2.9934	0.0031	— 4 19 6.4	4	12.499	0.336	87.9; 89.2	— 4 2415
2269	8.9	34 17.09	2	2.9454	0.0023	— 6 55 25.6	2	12.503	0.330	85.2	— 6 2683
2270	8.9	34 33.97	2	3.0074	0.0033	— 3 33 33.6	1	12.522	0.337	84.2	— 3 2432
2271	8	8 34 43.85	5	+ 2.9574	— 0.0025	— 6 17 10.9	5	— 12.534	— 0.331	84.0	— 6 2685
2272	8	34 44.69	1	2.9371	0.0022	— 7 23 0.7	1	12.535	0.329	84.3	— 7 2573
2273	8.9	34 46.49	1	3.0031	0.0032	— 3 47 53.3	1	12.537	0.336	80.2	— 3 2434
2274	9.8	34 49.74	1	2.9345	0.0021	— 7 31 38.3	1	12.540	0.328	86.2	— 7 2574
2275	8	35 10.60	2	2.9551	0.0025	— 6 26 14.4	2	12.564	0.330	82.8	— 6 2686
2276	8	8 35 19.41	8	+ 2.9925	— 0.0031	— 4 22 54.5	6	— 12.574	— 0.334	88.1	— 4 2421
2277	8.9	35 22.23	1	2.9609	0.0025	— 6 6 32.0	1	12.577	0.331	93.2	— 6 2687
2278	8.9	35 22.46	2	2.9967	0.0031	— 4 9 13.6	2	12.578	0.335	92.2	— 4 2423
2279	8	35 43.13	4	2.9597	0.0025	— 6 10 55.3	3	12.601	0.330	88.0; 89.8	— 6 2690
2280	8	35 53.18	3	2.9780	0.0028	— 5 11 2.0	3	12.612	0.332	85.8	— 5 2609
2281	7.8	8 36 6.75	9	+ 3.0248	— 0.0036	— 2 37 18.9	9	— 12.628	— 0.337	86.6	— 2 2659
2282	8	36 37.23	1	3.0002	0.0032	— 3 58 53.7	1	12.662	0.334	85.2	— 3 2445
2283	8.9	36 49.78	4	2.9964	0.0031	— 4 11 39.9	3	12.677	0.332	87.0; 85.2	— 4 2427
2284	8.9	36 51.66	3	2.9439	0.0023	— 7 4 2.1	3	12.679	0.327	87.2	— 6 2700
2285	5	37 46.60	2	2.9492	0.0023	— 6 48 11.4	2	12.741	0.327	84.3	— 6 2708
2286	8.7	8 38 2.18	5	+ 2.9626	— 0.0026	— 6 4 21.2	5	— 12.758	— 0.328	86.0	— 5 2619
2287	8	38 3.93	1	3.0044	0.0033	— 3 46 13.5	1	12.760	0.333	80.2	— 3 2454
2288	9.8	38 26.80	1	3.0373	0.0038	— 1 56 55.5	1	12.786	0.336	94.2	— 1 2122
2289	9.8	38 29.13	4	2.9682	0.0026	— 5 46 23.2	4	12.788	0.328	87.7	— 5 2620
2290	8	38 52.00	1	3.0269	0.0036	— 2 31 52.3	1	12.814	0.334	78.2	— 2 2674
2291	8.9	8 38 59.96	3	+ 2.9626	— 0.0024	— 6 5 36.6	2	— 12.823	— 0.327	84.2; 85.2	— 6 2713
2292	9.8	39 11.49	4	2.9949	0.0031	— 4 18 52.0	4	12.836	0.330	90.0	— 4 2441
2293	7.8	39 17.02	5	3.0335	0.0038	— 2 9 58.5	5	12.842	0.334	86.8	— 2 2676
2294	9.8	39 22.77	1	3.0141	0.0034	— 3 14 49.0	1	12.849	0.332	78.2	— 3 2462
2295	7	39 22.99	2	2.9546	0.0024	— 6 32 35.0	1	12.849	0.325	84.2; 82.3	— 6 2714
2296	8	8 39 57.93	2	+ 2.9551	— 0.0024	— 6 31 45.4	1	— 12.888	— 0.325	84.2; 86.2	— 6 2717
2297	8	40 4.65	6	2.9628	0.0026	— 6 6 13.7	6	12.896	0.325	87.9	— 6 2719
2298	7.8	40 13.68	3	2.9440	0.0022	— 7 8 52.7	3	12.906	0.323	87.2	— 7 2607
2299	9.8	40 23.97	1	2.9984	0.0032	— 4 8 2.9	1	12.917	0.329	92.2	— 4 2448
2300	8	40 26.27	3	2.9653	0.0026	— 5 58 28.3	2	12.920	0.325	85.6	— 5 2625

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
2301	8.9	8 40 27.13	3	+ 3.0227	— 0.0036	— 2 46 54.8	3	— 12.920	— 0.332	90.2	— 2 2680
2302	9.8	41 2.09	1	2.9670	0.0026	— 5 53 31.2	1	12.960	0.325	86.2	— 5 2629
2303	8	41 5.86	1	2.9594	0.0025	— 6 19 11.0	1	12.963	0.324	83.2	— 6 2723
2304	9.8	41 24.37	1	2.9731	0.0027	— 5 33 44.9	1	12.984	0.325	96.2	— 5 2630
2305	8.9	41 32.76	1	3.0098	0.0034	— 3 30 53.2	1	12.994	0.329	84.2	— 3 2473
2306	9.8	8 41 33.43	2	+ 2.9777	— 0.0028	— 5 18 28.4	2	— 12.994	— 0.325	86.2	— 5 2633
2307	9.8	41 53.36	1	2.9835	0.0029	— 4 59 39.7	1	13.016	0.325	85.1	— 4 2456
2308	8.9	42 2.01	1	3.0236	0.0036	— 2 44 38.5	1	13.026	0.330	80.2	— 2 2690
2309	6.7	42 9.42	2	2.9635	0.0026	— 6 7 1.2	2	13.034	0.323	86.7	— 6 2727
2310	7.8	42 22.45	5	3.0355	0.0038	— 2 4 45.9	5	13.049	0.331	87.2	— 1 2136
2311	8	8 42 22.77	2	+ 2.9381	— 0.0021	— 7 31 50.8	2	— 13.049	— 0.320	85.3	— 7 2617
2312	9.8	42 28.80	2	2.9818	0.0029	— 5 5 47.6	2	13.056	0.324	90.7	— 5 2638
2313	8	42 38.64	6	3.0000	0.0032	— 4 4 48.4	6	13.067	0.326	88.6	— 3 2478
2314	9.8	43 3.26	1	3.0289	0.0037	— 2 17 16.5	1	13.094	0.329	90.2	— 2 2695
2315	8.9	43 4.82	4	3.0250	0.0036	— 2 40 37.8	3	13.096	0.328	85.2; 87.6	— 2 2696
2316	8	8 43 5.22	2	+ 2.9874	— 0.0030	— 4 47 48.4	2	— 13.096	— 0.324	81.8	— 4 2461
2317	8	43 11.89	3	2.9558	0.0024	— 6 34 1.4	3	13.103	0.321	84.9	— 6 2731
2318	8.9	43 15.91	1	2.9600	0.0025	— 6 20 7.6	1	13.108	0.321	82.3	— 6 2732
2319	5.6	43 19.88	3	3.0194	0.0035	— 2 59 55.1	3	13.112	0.328	87.6	— 2 2699
2320	8.9	43 29.68	1	2.9393	0.0021	— 7 29 56.2	1	13.123	0.318	86.2	— 7 2627
2321	7	8 43 45.63	2	+ 2.9796	— 0.0028	— 5 14 58.4	2	— 13.141	— 0.323	81.8	— 5 2642
2322	8	43 48.20	5	3.0243	0.0036	— 2 43 31.8	2	13.144	0.327	87.4	— 2 2702
2323	8.9	43 52.59	1	2.9967	0.0031	— 4 17 12.2	1	13.148	0.324	90.2	— 4 2465
2324	9.8	44 2.87	2	2.9746	0.0027	— 5 32 8.5	2	13.160	0.322	93.2	— 5 2644
2325	8.9	44 12.30	2	3.0320	0.0038	— 2 17 25.2	2	13.170	0.328	86.7	— 2 2706
2326	9.8	8 44 32.09	1	+ 3.0301	— 0.0037	— 2 24 10.9	1	— 13.192	— 0.327	78.2	— 2 2707
2327	7.8	44 37.25	10	2.9974	0.0031	— 4 15 16.4	8	13.197	0.324	87.8	— 4 2469
2328	8.9	44 50.49	1	2.9938	0.0030	— 4 28 0.9	1	13.212	0.323	93.2	— 4 2471
2329	8.7	45 14.01	4	2.9705	0.0026	— 5 47 26.8	3	13.238	0.320	87.7	— 5 2647
2330	9	45 22.20	1	2.9701	0.0026	— 5 49 5.4	1	13.247	0.320	86.2	— 5 2650
2331	8.9	8 45 35.47	2	+ 3.0227	— 0.0036	— 2 50 3.4	2	— 13.261	— 0.325	84.2	— 2 2714
2332	8	45 36.93	5	2.9984	0.0031	— 4 13 5.6	3	13.263	0.322	88.2; 85.6	— 4 2474
2333	8.9	45 38.69	3	2.9754	0.0027	— 5 31 18.5	3	13.265	0.320	92.5	— 5 2651
2334	6	45 40.53	1	2.9541	0.0023	— 6 43 42.1	1	13.267	0.317	83.2	— 6 2743
2335	8	45 50.00	4	2.9611	0.0025	— 6 20 8.8	4	13.277	0.318	88.7	— 6 2744
2336	8.9	8 46 2.98	5	+ 2.9465	— 0.0022	— 7 9 55.4	2	— 13.291	— 0.316	87.8	— 7 2637
2337	8	46 33.07	5	2.9447	0.0022	— 7 16 50.3	1	13.324	0.315	87.4; 84.8	— 7 2641
2338	8.9	47 19.05	3	2.9453	0.0022	— 7 16 7.5	2	13.374	0.314	87.2; 88.7	— 7 2647
2339	8.9	47 23.61	4	2.9455	0.0022	— 7 15 30.6	1	13.379	0.314	85.2	— 7 2649
2340	8	47 28.29	1	2.9719	0.0026	— 5 45 36.6	1	13.384	0.317	86.2	— 5 2656
2341	9.8	8 47 29.50	1	+ 2.9827	— 0.0028	— 5 8 51.1	1	— 13.386	— 0.318	93.2	— 5 2655
2342	8.9	47 45.98	6	2.9771	0.0027	— 5 28 12.0	4	13.403	0.317	89.9; 88.2	— 5 2657
2343	8.9	48 1.10	6	2.9773	0.0027	— 5 27 59.7	2	13.420	0.317	89.9; 93.4	— 5 2658
2344	9.8	48 12.21	1	3.0319	0.0038	— 2 19 56.9	1	13.432	0.323	94.1	— 2 2728
2345	7.6	48 23.14	2	2.9859	0.0029	— 4 58 50.6	2	13.444	0.317	81.8	— 4 2490
2346	8.9	8 48 27.19	1	+ 2.9753	— 0.0027	— 5 35 27.5	1	— 13.448	— 0.316	84.3	— 5 2661
2347	8.9	48 42.48	1	2.9521	0.0023	— 6 55 5.3	1	13.464	0.313	86.2	— 6 2759
2348	8	48 56.45	3	3.0187	0.0035	— 3 6 2.5	3	13.480	0.320	84.2	— 3 2506
2349	9.8	49 4.58	2	3.0126	0.0034	— 3 27 29.1	2	13.488	0.319	84.2	— 3 2509
2350	9.8	49 15.32	4	3.0328	0.0038	— 2 17 20.7	3	13.500	0.321	87.7; 85.6	— 2 2734

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
2351	7	8	49	19.91	3	+ 3.0259	— 0.0036	— 2	41	24.0	3	— 13.505	— 0.320	87.6	— 2	2735
2352	8		49	36.97	1	2.9422	0.0021	— 7	30	43.5	1	13.523	0.311	91.2	— 7	2661
2353	7.8		49	37.12	9	3.0321	0.0038	— 2	20	5.4	5	13.524	0.321	86.4; 85.4	— 2	2737
2354	8		50	8.14	3	2.9720	0.0026	— 5	48	52.8	3	13.557	0.314	88.2	— 5	2668
2355	8.9		50	34.67	3	2.9430	0.0020	— 7	29	41.7	3	13.585	0.310	85.6	— 7	2665
2356	9	8	50	51.04	1	+ 2.9991	— 0.0031	— 4	15	58.7	1	— 13.603	— 0.316	90.2	— 4	2499
2357	9		50	59.72	3	3.0324	0.0038	— 2	19	50.1	1	13.612	0.319	86.2; 90.2	— 2	2744
2358	8.9		51	21.84	4	2.9645	0.0025	— 6	16	45.3	4	13.636	0.311	85.2	— 6	2772
2359	8		51	37.48	2	2.9580	0.0023	— 6	56	58.4	2	13.653	0.310	84.3	— 6	2774
2360	9		51	52.74	1	2.9840	0.0028	— 5	9	33.5	1	13.669	0.313	93.2	— 5	2671
2361	7	8	51	59.21	7	+ 2.9972	— 0.0031	— 4	23	49.0	6	— 13.676	— 0.314	87.1	— 4	2503
2362	8.9		52	3.03	3	3.0268	0.0036	— 2	39	55.6	3	13.680	0.317	84.2	— 2	2752
2363	8		52	3.14	2	3.0191	0.0035	— 3	6	56.6	2	13.680	0.316	87.2	— 3	2520
2364	8		52	6.80	4	2.9614	0.0024	— 6	28	46.4	4	13.684	0.310	87.7	— 6	2778
2365	8.9		52	28.64	1	2.9809	0.0028	— 5	21	7.2	1	13.707	0.311	86.2	— 5	2675
2366	8.9	8	52	49.65	1	+ 2.9774	— 0.0027	— 5	33	52.7	1	— 13.730	— 0.311	79.3	— 5	2676
2367	9.8		53	11.26	1	2.9777	0.0027	— 5	33	27.1	1	13.752	0.310	84.3	— 5	2679
2868	8.9		53	11.31	5	2.9807	0.0027	— 5	22	58.1	3	13.752	0.310	85.0; 86.6	— 5	2680
2369	9.8		53	23.14	2	3.0295	0.0037	— 2	31	14.3	2	13.765	0.315	87.2	— 2	2758
2370	8		53	31.13	4	3.0026	0.0032	— 4	6	11.5	3	13.774	0.312	89.7	— 4	2508
2371	8.9	8	53	49.68	3	+ 2.9990	— 0.0031	— 4	19	10.1	2	— 13.793	— 0.312	83.6; 85.7	— 4	2513
2372	8		53	53.52	6	3.0368	0.0038	— 2	4	55.0	6	13.797	0.315	89.5	— 1	2174
2373	9		54	14.52	1	3.0046	0.0032	— 4	0	10.8	1	13.819	0.312	90.2	— 3	2529
2374	8.9		54	17.07	1	2.9966	0.0030	— 4	28	12.2	1	13.822	0.311	84.2	— 4	2514
2375	8.7		54	54.02	7	3.0040	0.0032	— 4	2	41.8	3	13.861	0.311	88.4; 86.9	— 3	2532
2376	8.9	8	54	57.32	4	+ 2.9547	— 0.0022	— 6	56	39.4	4	— 13.865	— 0.305	84.5	— 6	2784
2377	8.9		54	58.67	2	2.9742	0.0026	— 5	48	8·4	2	13.866	0.307	89.2	— 5	2689
2378	8		55	11.68	2	3.0371	0.0039	— 2	5	22.5	1	13.880	0.314	83.2; 86.3	— 1	2181
2379	9.8		55	19.58	2	3.0328	0.0038	— 2	20	44.9	1	13.885	0.313	87.2; 84.2	— 2	2765
2380	8		55	20.98	1	3.0235	0.0036	— 2	53	56.6	1	13.890	0.312	80.2	— 2	2766
2381	9.8	8	55	24.70	5	+ 2.9649	— 0.0024	— 6	21	25.4	4	— 13.893	— 0.306	89.4; 88.5	— 6	2787
2382	8		55	29.70	5	2.9462	0.0021	— 7	27	17.9	5	13.899	0.304	87.4	— 7	2696
2383	7		55	31.41	7	3.0052	0.0032	— 3	59	14.0	2	13.900	0.310	87.8; 85.8	— 3	2535
2384	9.8		55	45.55	3	3.0331	0.0038	— 2	20	10.9	1	13.915	0.312	84.9; 78.2	— 2	2768
2385	9.8		56	4.91	2	2.9647	0.0024	— 6	23	19.6	1	13.936	0.305	93.2	— 6	2794
2386	8	8	56	11.51	5	+ 3.0311	— 0.0037	— 2	27	26.9	4	— 13.942	— 0.312	87.4; 89.7	— 2	2772
2387	9.8		57	25.61	1	2.9809	0.0027	— 5	27	55.8	1	14.020	0.305	86.2	— 5	2698
2388	8.9		57	32.49	2	3.0401	0.0039	— 1	56	7.9	2	14.027	0.311	90.2	— 1	2192
2389	8.9		57	39.37	3	3.0063	0.0032	— 3	57	19.2	3	14.034	0.307	86.2	— 3	2547
2390	7		57	44.53	4	2.9939	0.0029	— 4	41	50.3	4	14.040	0.306	85.2	— 4	2530
2391	8	8	58	16.41	3	+ 3.0178	— 0.0034	— 3	16	26.4	2	— 14.073	— 0.308	89.6; 87.2	— 3	2553
2392	8.9		58	34.83	3	3.0391	0.0039	— 2	0	7.7	3	14.092	0.309	87.6	— 1	2193
2393	9.8		58	36.54	2	3.0040	0.0031	— 4	6	45.1	1	14.094	0.306	88.2; 84.2	— 4	2532
2394	8		58	55.71	5	3.0026	0.0031	— 4	11	51.5	3	14.114	0.305	88.6; 87.6	— 4	2533
2395	8		59	3.74	4	3.0175	0.0034	— 3	18	16.0	2	14.122	0.306	88.2; 89.2	— 3	2563
2396	8.9	8	59	10.57	1	+ 3.0091	— 0.0032	— 3	48	40.0	1	— 14.129	— 0.305	92.2	— 3	2566
2397	8.9		59	21.47	4	3.0027	0.0031	— 4	12	16.3	1	14.140	0.304	87.7; 96.2	— 4	2537
2398	8.9		59	32.45	1	3.0211	0.0035	— 3	5	46.1	1	14.152	0.306	84.2	— 3	2570
2399	8		59	48.50	3	2.9540	0.0021	— 7	7	39.3	3	14.168	0.299	82.9	— 7	2714
2400	8.7	9	0	25.34	3	3.0374	0.0038	— 2	7	20.1	3	14.206	0.307	86.9	— 2	2791

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
2401	9	9	0	51.08	1	+ 2.9863	— 0.0027	— 5	12	59.5	1	— 14.233	— 0.301	93.2	— 5	2713
2402	8.9		1	1.85	2	2.9966	0.0030	— 4	35	57.7	2	14.244	0.302	82.7	— 4	2544
2403	8		1	15.97	3	2.9517	0.0020	— 7	18	32.4	3	14.258	0.297	84.9	— 7	2721
2404	9.8		1	27.39	1	3.0296	0.0036	— 2	36	14.7	1	14.270	0.304	90.3	— 2	2794
2405	9		1	29.89	1	3.0071	0.0032	— 3	58	34.7	1	14.272	0.302	90.2	— 3	2579
2406	8	9	1	38.04	2	+ 2.9549	— 0.0021	— 7	7	52.9	2	— 14.281	— 0.296	84.8	— 7	2725
2407	8.9		1	43.85	1	2.9940	0.0029	— 4	46	32.8	1	14.287	0.300	85.1	— 4	2546
2408	8.9		1	56.50	2	2.9630	0.0022	— 6	39	19.8	2	14.300	0.297	86.2	— 6	2825
2409	8.7		1	57.20	3	3.0397	0.0039	— 1	59	35.3	3	14.300	0.305	88.9	— 1	2207
2410	7		2	4.26	4	2.9520	0.0020	— 7	19	19.3	1	14.308	0.296	86.5; 91.2	— 7	2726
2411	8	9	2	31.10	2	+ 2.9881	— 0.0028	— 5	8	50.4	2	— 14.335	— 0.299	81.8	— 5	2727
2412	8		2	47.94	2	2.9967	0.0029	— 4	38	2.3	2	14.352	0.299	85.7	— 4	2549
2413	8.9		2	49.15	1	2.9947	0.0029	— 4	45	5.0	1	14.353	0.299	85.2	— 4	2550
2414	8.9		3	6.03	1	2.9829	0.0026	— 5	28	41.3	1	14.371	0.297	86.2	— 5	2732
2415	8.9		4	23.72	2	2.9803	0.0026	— 5	40	19.7	2	14.450	0.295	85.3	— 5	2738
2416	9.8	9	4	24.11	4	+ 3.0190	— 0.0034	— 3	17	26.1	4	— 14.450	— 0.299	88.2	— 3	2594
2417	8.9		4	29.62	2	3.0248	0.0035	— 2	56	20.0	2	14.455	0.300	90.8	— 2	2805
2418	8.9		5	43.44	6	3.0296	0.0036	— 2	39	13.6	5	14.532	0.298	89.9	— 2	2808
2419	7.8		5	55.35	11	2.9676	0.0022	— 6	29	21.7	4	14.542	0.292	88.1; 86.0	— 6	2839
2420	8		6	0.65	5	3.0070	0.0031	— 4	3	52.8	4	14.547	0.296	84.6	— 3	2604
2421	8	9	6	21.84	2	+ 3.0044	— 0.0030	— 4	13	52.6	2	— 14.568	— 0.295	85.2	— 4	2564
2422	9.8		6	28.43	1	2.9709	0.0023	— 6	18	5.2	1	14.575	0.291	82.2	— 6	2843
2423	8		6	29.31	10	2.9687	0.0023	— 6	26	20.9	7	14.576	0.291	88.9	— 6	2844
2424	6		6	30.25	3	2.9658	0.0022	— 6	37	7.5	1	14.577	0.291	82.6	— 6	2845
2425	8		6	33.81	3	2.9952	0.0028	— 4	48	4.9	3	14.580	0.294	83.2	— 4	2545
2426	8	9	6	37.71	5	+ 3.0316	— 0.0036	— 2	32	27.0	5	— 14.584	— 0.297	87.0	— 2	2814
2427	8.9		7	2.55	2	2.9972	0.0029	— 4	41	26.6	2	14.609	0.293	82.2	— 4	2566
2428	8		7	56.96	1	2.9707	0.0023	— 6	21	43.0	1	14.663	0.289	86.2	— 6	2855
2429	9		8	9.33	1	3.0369	0.0038	— 2	13	31.0	1	14.676	0.296	94.2	— 2	2820
2430	9.8		8	21.23	1	3.0338	0.0037	— 2	25	31.1	1	14.687	0.295	78.2	— 2	2823
2431	8.9	9	8	33.10	2	+ 2.9927	— 0.0027	— 5	0	5.1	2	— 14.699	— 0.290	90.2	— 4	2573
2432	8		8	43.69	3	3.0081	0.0031	— 4	2	38.3	3	14.710	0.292	90.2	— 3	2623
2433	9.8		8	51.07	4	3.0313	0.0036	— 2	35	11.2	4	14.717	0.294	89.8	— 2	2826
2434	8.7		9	9.80	1	3.0174	0.0033	— 3	28	15.7	1	14.736	0.292	87.3	— 3	2628
2435	8.9		9	25.82	1	2.9701	0.0022	— 6	26	20.3	1	14.751	0.287	82.3	— 6	2862
2436	8	9	9	45.85	1	+ 2.9945	— 0.0028	— 4	55	7.3	1	— 14.771	— 0.289	79.3	— 4	2576
2437	8.9		10	17.63	4	3.0087	0.0031	— 4	2	2.3	4	14.802	0.290	84.8	— 3	2635
2438	8.9		10	30.87	4	3.0378	0.0037	— 2	11	34.2	4	14.816	0.292	88.7	— 2	2829
2439	6		10	44.16	5	2.9801	0.0024	— 5	51	11.9	5	14.829	0.286	85.9	— 5	2762
2440	8.9		10	46.18	1	2.9744	0.0023	— 6	12	53.5	1	14.831	0.286	96.2	— 6	2872
2441	8.9	9	11	40.70	2	+ 2.9629	— 0.0020	— 6	57	41.8	1	— 14.884	— 0.283	86.2	— 6	2875
2442	8.9		11	44.38	3	2.9929	0.0027	— 5	4	2.0	3	14.888	0.286	88.6	— 4	2587
2443	8		11	52.06	1	3.0272	0.0035	— 2	53	2.1	1	14.895	0.289	86.3	— 2	2839
2444	8.9		12	14.06	2	2.9630	0.0020	— 6	58	34.7	1	14.917	0.282	86.2	— 6	2877
2445	9		12	47.46	4	3.0312	0.0035	— 2	38	29.2	4	14.949	0.288	89.5	— 2	2840
2446	8.9	9	13	12.46	2	+ 2.9974	— 0.0027	— 4	49	3.9	2	— 14.973	— 0.284	82.2	— 4	2594
2447	9.8		13	38.84	3	3.0097	0.0030	— 4	2	1.3	3	14.999	0.285	88.6	— 3	2655
2448	8		13	49.96	2	2.9872	0.0025	— 5	29	8.4	2	15.010	0.282	83.3,	— 5	2774
2449	8.9		14	38.09	1	3.0011	0.0028	— 4	36	41.5	1	15.056	0.283	79.2	— 4	2596
2450	9		14	48.83	2	3.0275	0.0034	— 2	54	38.6	2	15.066	0.285	87.3	— 2	2849

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	'	"		"	"		°	
2451	8.7	9	14	50.19	2	+ 2.9606	— 0.0019	— 7	13	17.6	2	— 15.068	— 0.278	84.3	— 7	2785
2452	8.9		14	56.72	1	3.0344	0.0036	— 2	27	42.0	1	15.074	0.285	94.2	— 2	2851
2453	9.8		15	0.04	5	3.0370	0.0037	— 2	17	43.6	2	15.078	0.286	90.2	— 2	2853
2454	8.9		15	40.53	3	3.0106	0.0030	— 4	1	15.7	3	15.116	0.282	86.6	— 3	2661
2455	8		15	40.69	6	3.0373	0.0036	— 2	16	59.2	2	15.116	0.285	88.6; 87.2	— 2	2859
2456	8	9	15	51.18	6	+ 3.0371	— 0.0036	— 2	17	51.6	2	— 15.126	— 0.284	88.6	— 2	2863
2457	9		16	7.86	4	3.0320	0.0035	— 2	37	53.1	4	15.142	0.283	90.2	— 2	2866
2458	7.8		16	25.12	2	2.9873	0.0024	— 5	33	0.8	2	15.159	0.279	83.3	— 5	2782
2459	8		16	50.42	1	3.0032	0.0028	— 4	31	43.2	1	15.183	0.280	79.2	— 4	2602
2460	8.9		16	52.09	1	3.0060	0.0029	— 4	20	31.3	1	15.184	0.280	79.2	— 4	2603
2461	8	9	17	13.15	3	+ 2.9622	— 0.0018	— 7	12	7.6	1	— 15.205	— 0.275	84.9	— 7	2795
2462	8		17	28.45	3	2.9630	0.0018	— 7	9	33.6	2	15.219	0.275	84.9	— 7	2798
2463	8.7		17	55.29	1	2.9987	0.0027	— 4	50	48.5	1	15.245	0.278	79.8	— 4	2608
2464	7		18	1.21	3	2.9971	0.0026	— 4	57	12.0	3	15.250	0.277	83.6	— 4	2609
2465	6		18	51.86	1	3.0154	0.0030	— 3	45	55.7	1	15.298	0.278	81.3	— 3	2672
2466	8	9	18	54.08	2	+ 2.9890	— 0.0024	— 5	29	38.6	2	— 15.300	— 0.275	83.3	— 5	2790
2467	5.6		19	23.90	1	3.0030	0.0027	— 4	36	3.5	1	15.328	0.276	79.2	— 4	2616
2468	9.8		19	28.06	2	3.0287	0.0034	— 2	53	54.4	2	15.332	0.278	87.3	— 2	2877
2469	7		19	29.47	3	2.9835	0.0022	— 5	53	14.6	3	15.334	0.274	83.6	— 5	2794
2470	8.9		20	22.56	3	3.0094	0.0029	— 4	12	4.0	2	15.383	0.275	85.9; 81.8	— 4	2622
2471	8	9	21	7.97	3	+ 3.0090	— 0.0028	— 4	14	10.3	1	— 15.426	— 0.274	85.9; 94.2	— 4	2627
2472	8		21	29.91	1	3.0235	0.0032	— 3	16	38.6	1	15.446	0.275	86.3	— 3	2685
2473	6.5		21	49.96	2	2.9897	0.0023	— 5	32	53.4	2	15.465	0.271	83.3	— 5	2802
2474	9.8		21	54.65	1	2.9704	0.0019	— 6	50	7.2	1	15.469	0.269	86.2	— 6	2917
2475	8.9		22	0.02	1	2.9957	0.0025	— 5	8	57.7	1	15.474	0.271	84.3	— 5	2803
2476	7	9	22	17.78	1	+ 2.9651	— 0.0017	— 7	11	58.6	1	— 15.490	— 0.268	84.2	— 7	2813
2477	8		22	25.44	2	2.9596	0.0016	— 7	33	59.8	2	15.498	0.267	85.3	— 7	2814
2478	6		23	3.44	4	3.0392	0.0036	— 2	14	44.6	3	15.533	0.274	88.7	— 2	2901
2479	8		23	3.60	2	3.0395	0.0036	— 2	13	38.6	1	15.533	0.274	90.2	— 2	2902
2480	8		23	14.59	1	3.0334	0.0034	— 2	38	36.1	1	15.543	0.273	86.3	— 2	2904
2481	8	9	23	32.67	2	+ 3.0341	— 0.0034	— 2	35	51.4	1	— 15.560	— 0.273	86.8	— 2	2906
2482	8.9		23	36.24	2	2.9692	0.0018	— 6	58	18.4	2	15.563	0.266	84.3	— 6	2923
2483	8		24	11.23	1	2.9918	0.0023	— 5	28	39.0	1	15.595	0.268	82.2	— 5	2814
2484	7		24	39.40	1	3.0205	0.0030	— 3	32	24.3	1	15.621	0.270	87.3	— 3	2698
2485	7		24	55.61	2	2.9971	0.0024	— 5	8	8.8	2	15.636	0.267	84.8	— 5	2820
2486	8.7	9	25	15.62	4	+ 3.0316	— 0.0033	— 2	47	42.7	3	— 15.654	— 0.270	86.8	— 2	2916
2487	8		25	43.75	6	3.0307	0.0033	— 2	51	27.4	3	15.680	0.269	86.3	— 2	2917
2488	7		25	51.24	3	3.0060	0.0026	— 4	33	6.7	3	15.686	0.266	83.2	— 4	2653
2489	8		25	51.87	1	2.9705	0.0017	— 6	58	7.3	1	15.687	0.263	82.3	— 6	2933
2490	8		25	59.34	1	3.0158	0.0029	— 3	52	58.6	1	15.694	0.267	81.3	— 3	2701
2491	8.9	9	26	8.66	1	+ 3.0290	— 0.0032	— 2	59	5.4	1	— 15.702	— 0.268	94.3	— 2	2919
2492	8		26	30.72	2	2.9675	0.0016	— 7	11	59.0	2	15.722	0.262	85.2	— 7	2834
2493	9		26	50.66	1	3.0297	0.0032	— 2	56	52.9	1	15.740	0.267	94.2	— 2	2922
2494	7		27	23.43	1	2.9759	0.0018	— 6	39	33.9	1	15.770	0.261	86.2	— 6	2939
2495	8.9		28	1.82	1	3.0066	0.0026	— 4	33	55.2	1	15.804	0.263	85.2	— 4	2660
2496	8.9	9	28	10.20	4	+ 3.0347	— 0.0033	— 2	37	26.7	4	— 15.812	— 0.265	91.2	— 2	2924
2497	9.8		28	17.30	1	2.9784	0.0018	— 6	31	26.4	1	15.818	0.260	93.2	— 6	2943
2498	7.8		28	29.54	4	3.0300	0.0032	— 2	57	21.5	4	15.829	0.264	88.5	— 2	2925
2499	6		28	33.32	3	2.9951	0.0023	— 5	22	50.2	3	15.832	0.261	82.6	— 5	2840
2500	8.9		28	50.20	2	3.0061	0.0025	— 4	37	34.4	2	15.848	0.262	86.7	— 4	2665

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
2501	8.9	9 28 55.18	1	+ 2.9718	— 0.0016	— 6 59 56.6	1	— 15.852	— 0.259	82.3	— 6 2945
2502	7.8	29 1.50	2	3.0100	0.0026	— 4 21 17.2	2	15.858	0.262	81.8	— 4 2666
2503	7.8	29 7.04	5	3.0032	0.0024	— 4 50 1.1	4	15.863	0.261	86.4; 85.2	— 4 2667
2504	9.8	29 12.83	4	2.9784	0.0018	— 6 33 14.8	3	15.868	0.259	88.7; 87.2	— 6 2947
2505	8.9	29 13.00	5	3.0333	0.0033	— 2 44 13.6	4	15.868	0.264	91.1	— 2 2928
2506	8.9	9 29 27.80	1	+ 2.9873	— 0.0020	— 5 56 23.2	1	— 15.881	— 0.259	96.2	— 5 2843
2507	9.8	29 32.86	1	3.0377	0.0034	— 2 25 50.2	1	15.886	0.264	94.2	— 2 2931
2508	9.8	30 3.62	2	3.0029	0.0024	— 4 52 35.2	2	15.913	0.260	88.2	— 4 2671
2509	9.8	30 15.74	1	2.9742	0.0017	— 6 53 2.9	1	15.924	0.257	86.2	— 6 2952
2510	7.8	30 23.06	3	3.0406	0.0035	— 2 14 30.0	3	15.930	0.263	84.9	— 2 2934
2511	9.8	9 30 24.28	2	+ 3.0330	— 0.0032	— 2 46 19.0	1	— 15.931	— 0.262	90.3	— 2 2935
2512	8.9	30 26.97	1	3.0223	0.0029	— 3 31 47.3	1	15.934	0.261	87.3	— 3 2723
2513	9.8	30 29.24	2	3.0342	0.0033	— 2 41 21.6	2	15.936	0.262	90.3	— 2 2936
2514	9	30 43.10	1	3.0246	0.0030	— 3 22 17.0	1	15.948	0.261	87.3	— 3 2726
2515	8.9	30 53.06	3	2.9801	0.0018	— 6 29 45.7	1	15.957	0.256	87.2; 86.2	— 6 2956
2516	7	9 31 41.98	4	+ 3.0353	— 0.0033	— 2 37 55.1	3	— 16.000	— 0.260	90.3; 91.6	— 2 2939
2517	9.8	31 43.03	4	3.0351	0.0033	— 2 38 55.3	2	16.001	0.260	88.3; 86.3	— 2 2940
2518	9.8	31 52.98	2	2.9930	0.0021	— 5 37 29.2	2	16.010	0.256	83.3	— 5 2854
2519	8	32 11.70	4	3.0073	0.0025	— 4 37 38.7	4	16.026	0.257	87.7	— 4 2681
2520	8	32 19.58	2	3.0258	0.0030	— 3 18 57.4	2	16.033	0.258	83.8	— 3 2733
2521	8.9	9 32 21.17	1	+ 3.0229	— 0.0029	— 3 31 25.7	1	— 16.034	— 0.258	87.3	— 3 2734
2522	8.9	32 25.51	2	3.0388	0.0035	— 2 23 24.4	2	16.038	0.259	90.2	— 2 2944
2523	8.9	32 37.44	1	2.9723	0.0015	— 7 6 37.2	1	16.048	0.253	84.3	— 7 2853
2524	8.7	32 55.09	2	3.0238	0.0029	— 3 28 20.3	1	16.064	0.257	86.8	— 3 2736
2525	7.8	32 59.52	4	3.0402	0.0034	— 2 17 54.2	2	16.068	0.258	87.2; 84.2	— 2 2946
2526	8.7	9 33 5.37	1	+ 3.0187	— 0.0028	— 3 50 9.2	1	— 16.073	— 0.256	78.3	— 3 2737
2527	9.8	33 11.99	4	3.0330	0.0032	— 2 48 56.6	4	16.079	0.258	92.2	— 2 2947
2528	9	33 33.69	1	3.0353	0.0032	— 2 39 28.7	1	16.098	0.257	90.3	— 2 2950
2529	7.8	34 43.63	5	2.9843	0.0017	— 6 20 41.3	5	16.158	0.251	86.1	— 6 2974
2530	9.8	35 8.33	1	2.9886	0.0018	— 6 3 3.1	1	16.180	0.251	86.2	— 5 2865
2531	8	9 35 15.33	3	+ 2.9743	— 0.0015	— 7 5 1.1	2	— 16.186	— 0.249	85.6	— 6 2975
2532	8	35 34.04	1	3.0209	0.0027	— 3 44 7.4	1	16.202	0.253	88.3	— 3 2744
2533	9	35 49.12	1	3.0272	0.0029	— 3 17 1.5	1	16.214	0.257	87.3	— 3 2746
2534	8.9	35 51.65	1	2.9867	0.0018	— 6 12 56.3	1	16.217	0.249	96.2	— 6 2977
2535	8	36 1.40	2	3.0249	0.0028	— 3 27 12.8	2	16.225	0.252	86.7	— 3 2748
2536	8	9 36 16.69	2	+ 2.9730	— 0.0014	— 7 13 5.6	2	— 16.238	— 0.247	85.3	— 7 2867
2537	9	36 18.67	1	2.9943	0.0020	— 5 40 37.0	1	16.240	0.249	84.3	— 5 2873
2538	9	37 6.78	1	2.9821	0.0016	— 6 35 51.1	1	16.281	0.247	93.2	— 6 2984
2539	8	37 14.41	2	2.9892	0.0018	— 6 4 59.5	2	16.287	0.247	84.2	— 5 2876
2540	8.9	37 26.54	2	2.9865	0.0017	— 6 17 11.2	2	16.298	0.247	89.2	— 6 2985
2541	8.9	9 37 30.74	2	+ 3.0341	— 0.0031	— 2 48 40.9	2	— 16.301	— 0.251	94.2	— 2 2962
2542	9	37 50.67	1	3.0272	0.0029	— 3 19 26.9	1	16.318	0.250	87.3	— 3 2756
2543	8	38 10.12	5	2.9959	0.0019	— 5 37 52.3	4	16.335	0.246	83.5	— 5 2881
2544	9	38 19.88	1	3.0363	0.0031	— 2 39 47.3	1	16.343	0.250	90.3	— 2 2964
2545	7.8	38 29.05	3	3.0168	0.0025	— 4 6 28.1	3	16.351	0.248	85.2	— 3 2759
2546	8	9 38 40.73	3	+ 2.9948	— 0.0019	— 5 43 47.7	1	— 16.360	— 0.246	84.6	— 5 2885
2547	8	38 54.95	3	2.9891	0.0017	— 6 9 8.3	3	16.372	0.245	88.2	— 6 2989
2548	9	39 48.61	2	3.0388	0.0032	— 2 29 58.2	1	16.417	0.247	91.2; 94.2	— 2 2969
2549	8.9	39 53.96	6	3.0381	0.0031	— 2 33 22.9	4	16.422	0.247	89.2; 87.4	— 2 2970
2550	8	39 58.91	2	3.0450	0.0033	— 2 2 24.9	2	16.426	0.248	83.3	— 1 2300

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
2551	8	9	40	14.09	1	+2.9983	−0.0019	−5	31	29.7	1	−16.489	−0.244	81.3	−5	2895
2552	8.9		40	36.43	5	3.0327	0.0029	−2	58	26.9	4	16.458	0.246	90.2; 91.0	−2	2976
2553	8.7		40	38.99	2	3.0369	0.0031	−2	39	37.3	1	16.460	0.246	86.3	−2	2977
2554	9.8		40	41.96	2	3.0327	0.0029	−2	58	8.7	1	16.462	0.246	87.3	−2	2978
2555	8		40	44.47	4	3.0100	0.0022	−4	40	9.4	4	16.464	0.244	84.2	−4	2717
2556	9.8	9	40	48.17	3	+2.9844	−0.0015	−6	34	28.3	3	−16.467	−0.241	88.7	−6	2997
2557	8.9		40	51.91	5	3.0224	0.0026	−3	44	35.3	4	16.470	0.244	85.7; 87.5	−3	2771
2558	8		40	52.37	3	3.0348	0.0030	−2	48	51.6	3	16.471	0.245	86.9	−2	2979
2559	7.6		42	7.33	2	2.9712	0.0010	−7	36	42.0	2	16.533	0.238	84.3	−7	2895
2560	7.8		42	14.84	3	2.9836	0.0014	−6	41	25.3	2	16.539	0.239	85.0; 82.3	−6	3003
2561	8	9	42	19.44	3	+3.0215	−0.0025	−3	51	0.7	2	−16.543	−0.242	86.6; 84.3	−3	2782
2562	8.9		42	35.86	5	2.9829	0.0014	−6	45	43.6	3	16.556	0.238	85.7; 87.9	−6	3005
2563	8.9		42	39.42	1	3.0439	0.0032	−2	9	25.2	1	16.559	0.243	86.3	−2	2986
2564	8		43	3.60	3	3.0156	0.0023	−4	19	4.0	2	16.579	0.240	85.6; 82.3	−4	2728
2565	9.8		43	22.62	2	3.0155	0.0023	−4	19	46.0	1	16.595	0.240	85.8; 92.2	−4	2729
2566	8.9	9	43	51.99	1	+3.0456	−0.0032	−2	2	46.4	1	−16.619	−0.241	90.3	−1	2306
2567	9		44	18.57	2	3.0293	0.0027	−3	18	5.9	2	16.640	0.239	94.2	−3	2790
2568	8.7		44	43.15	4	2.9833	0.0013	−6	49	15.7	4	16.660	0.235	88.7	−6	3013
2569	6.7		45	11.20	2	3.0246	0.0025	−3	40	53.0	2	16.683	0.238	88.8	−3	2794
2570	7		45	22.78	3	2.9994	0.0017	−5	37	21.9	3	16.692	0.235	86.6	−5	2923
2571	8.9	9	45	26.52	1	+3.0152	−0.0022	−4	24	38.3	1	−16.696	−0.236	94.2	−4	2742
2572	6		46	33.97	3	2.9750	0.0009	−7	32	25.5	3	16.750	0.231	84.9	−7	2909
2573	9		46	41.11	3	3.0292	0.0026	−3	21	41.5	3	16.756	0.235	91.9	−3	2800
2574	9.8		47	10.29	2	3.0467	0.0032	−2	0	13.6	2	16.779	0.236	85.3	−1	2316
2575	8		47	39.36	6	3.0303	0.0026	−3	17	52.6	4	16.802	0.234	88.3; 85.3	−3	2802
2576	9.8	9	47	50.24	1	+3.0285	−0.0026	−3	26	27.8	1	−16.811	−0.234	87.3	−3	2803
2577	8.9		48	27.64	1	3.0463	0.0031	−2	3	9.1	1	16.840	0.234	85.3	−1	2319
2578	8		48	29.56	5	3.0232	0.0024	−3	52	11.7	5	16.842	0.232	84.5	−3	2806
2579	8.9		48	35.46	2	3.0152	0.0021	−4	30	24.5	1	16.847	0.231	86.7; 79.3	−4	2752
2580	7.8		49	35.20	4	3.0168	0.0021	−4	24	27.9	3	16.894	0.230	84.5; 86.2	−4	2757
2581	8.9	9	50	3.02	3	+3.0317	−0.0026	−3	14	25.9	2	−16.916	−0.230	92.2	−3	2815
2582	7.8		50	10.33	3	2.9833	0.0010	−7	4	35.7	3	16.921	0.226	84.9	−6	3033
2583	8.9		50	24.31	5	3.0314	0.0026	−3	16	2.8	3	16.932	0.230	88.7; 86.9	−3	2817
2584	8.9		50	43.68	1	3.0124	0.0019	−4	47	42.3	1	16.947	0.228	78.3	−4	2762
2585	8		50	48.84	2	3.0072	0.0017	−5	12	53.1	2	16.951	0.227	82.8	−5	2945
2586	9.8	9	51	6.70	2	+3.0268	−0.0024	−3	39	12.3	2	−16.965	−0.228	86.8	−3	2819
2587	9		51	12.08	2	3.0346	0.0026	−3	1	49.9	2	16.970	0.229	87.3	−2	3017
2588	8.9		51	15.59	1	3.0149	0.0020	−4	36	46.1	1	16.972	0.227	85.3	−4	2764
2589	8		51	29.78	1	2.9774	0.0007	−7	36	18.3	1	16.983	0.224	86.2	−7	2931
2590	9		52	19.98	2	2.9976	0.0014	−6	1	56.4	2	17.022	0.224	84.8	−5	2954
2591	9	9	52	26.64	1	+3.0346	−0.0026	−3	3	44.8	1	−17.027	−0.226	94.2	−2	3022
2592	8		52	39.18	3	3.0279	0.0024	−3	36	23.9	3	17.037	0.226	82.6	−3	2824
2593	8		52	56.74	8	3.0422	0.0028	−2	26	54.7	6	17.050	0.226	88.4	−2	3024
2594	8.9		52	59.13	5	3.0245	0.0022	−3	53	23.7	5	17.052	0.225	87.3	−3	2825
2595	8		53	13.45	11	3.0416	0.0028	−2	30	5.6	5	17.063	0.226	86.5	−2	3028
2596	8	9	53	35.60	3	+2.9828	−0.0008	−7	16	56.3	3	−17.080	−0.221	84.9	−7	2936
2597	8.7		54	1.04	4	3.0181	0.0020	−4	26	19.8	3	17.100	0.223	85.7; 82.9	−4	2775
2598	9		54	12.98	2	3.0274	0.0023	−3	41	9.0	2	17.109	0.223	89.8	−3	2828
2599	9.8		54	13.71	5	2.9974	0.0012	−6	7	49.6	2	17.109	0.221	86.5; 83.3	−6	3054
2600	8		54	44.81	7	2.9929	0.0011	−6	31	20.4	7	17.133	0.220	85.8	−6	3056

№	Gr.	A. R. 1880.0			Zahl d. Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl d. Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
2601	9.8	9	54	51.21	4	+ 2.9978	− 0.0012	− 6	7	42.6	2	− 17.138	− 0.220	87.0; 90.8	− 6	3057
2602	8.9		54	52.33	5	3.0276	0.0023	− 3	41	23.3	3	17.138	0.222	85.7; 83.0	− 3	2831
2603	8.7		54	54.71	3	3.0407	0.0027	− 2	36	47.1	3	17.140	0.223	84.3	− 2	3032
2604	9		55	11.92	1	3.0327	0.0024	− 3	16	28.3	1	17.153	0.222	88.2	− 3	2832
2605	9.8		55	32.00	1	3.0442	0.0028	− 2	19	53.1	1	17.168	0.222	78.2	− 2	3036
2606	8.9	9	55	44.57	5	+ 3.0174	− 0.0019	− 4	33	5.9	4	− 17.178	− 0.220	84.2; 85.5	− 4	2780
2607	8.9		55	51.42	3	3.0266	0.0022	− 3	47	35.9	3	17.183	0.220	88.6	− 3	2840
2608	9.8		56	31.52	1	2.9822	0.0006	− 7	29	13.7	1	17.213	0.216	86.2	− 7	2944
2609	8.9		56	50.86	1	3.0083	0.0015	− 5	20	57.0	1	17.227	0.217	85.3	− 5	2977
2610	9		56	50.88	7	3.0433	0.0027	− 2	25	53.8	6	17.228	0.220	89.1	− 2	3042
2611	7.8	9	56	55.29	2	+ 3.0120	− 0.0016	− 5	2	19.8	2	− 17.231	− 0.217	82.3	− 4	2784
2612	9		56	57.86	2	3.0433	0.0027	− 2	25	49.6	1	17.233	0.220	90.3	− 2	3043
2613	8		57	34.43	4	3.0379	0.0025	− 2	54	3.0	4	17.260	0.218	88.8	− 2	3045
2614	8.7		58	26.66	6	2.9937	0.0009	− 6	37	51.3	6	17.298	0.214	86.4	− 6	3068
2615	8.7		59	8.22	7	3.0378	0.0024	− 2	56	7.5	7	17.329	0.216	88.1	− 2	3052
2616	8	9	59	16.47	2	+ 3.0395	− 0.0025	− 2	47	38.5	2	− 17.335	− 0.215	83.3	− 2	3053
2617	9	10	0	51.36	1	3.0253	0.0019	− 4	3	5.3	1	17.404	0.212	88.3	− 3	2853
2618	8.9		0	54.30	3	3.0410	0.0025	− 2	42	0.5	3	17.407	0.213	84.0	− 2	3067
2619	9.8		1	1.12	1	3.0051	0.0012	− 5	47	29.2	1	17.412	0.210	82.3	− 5	2989
2620	8		1	4.57	5	3.0146	0.0015	− 4	58	53.9	5	17.414	0.211	85.9	− 4	2802
2621	8	10	1	25.31	4	+ 2.9895	− 0.0006	− 7	8	24.7	4	− 17.429	− 0.208	85.0	− 7	2961
2622	8		1	36.18	2	3.0046	0.0011	− 5	51	26.0	1	17.437	0.209	83.3; 84.3	− 5	2991
2623	7.6		1	47.09	5	2.9908	0.0006	− 7	2	41.7	1	17.445	0.208	84.5	− 6	3078
2624	8		1	51.38	1	3.0501	0.0028	− 1	56	7.7	1	17.448	0.212	78.2	− 1	2352
2625	8		2	27.01	8	3.0392	0.0024	− 2	53	29.4	8	17.473	0.210	87.8	− 2	3069
2626	9	10	2	27.56	1	+ 2.9876	− 0.0004	− 7	21	47.3	1	− 17.474	− 0.206	86.2	− 7	2963
2627	8		2	28.96	3	3.0315	0.0021	− 3	33	34.9	3	17.475	0.209	84.3	− 3	2856
2628	9		2	41.86	1	3.0146	0.0026	− 2	25	49.0	1	17.484	0.210	90.3	− 2	3072
2629	8		3	24.96	3	3.0341	0.0021	− 3	21	35.6	3	17.514	0.208	84.6	− 3	2860
2630	9.8		3	44.60	1	3.0219	0.0016	− 4	26	21.0	1	17.528	0.207	92.3	− 4	2807
2631	8	10	4	22.72	1	+ 3.0172	− 0.0014	− 4	52	51.1	1	− 17.555	− 0.205	79.3	− 4	2809
2632	8		4	55.49	2	3.0518	0.0028	− 1	49	31.6	2	17.578	0.207	78.2	− 1	2356
2633	8		5	11.28	3	2.9997	0.0007	− 6	27	10.8	3	17.590	0.202	82.0	− 6	3092
2634	7.6		5	18.16	4	2.9967	0.0006	− 6	43	32.6	4	17.594	0.202	83.8	− 6	3096
2635	8.9		6	14.14	2	2.9915	0.0004	− 7	14	3.4	1	17.634	0.200	86.2	− 7	2979
2636	9.8	10	6	14.44	7	+ 3.0226	− 0.0015	− 4	28	19.3	7	− 17.634	− 0.202	87.3	− 4	2812
2637	8		6	51.13	3	2.9914	0.0003	− 7	16	41.5	3	17.659	0.199	84.9	− 7	2981
2638	8		7	11.15	2	2.9902	0.0002	− 7	24	34.9	2	17.673	0.198	85.8	− 7	2982
2639	8.9		7	11.76	1	3.0212	0.0014	− 4	37	29.5	1	17.673	0.201	80.3	− 4	2816
2640	8		7	22.03	2	3.0015	0.0006	− 6	24	12.3	2	17.680	0.199	8[illegible].3	− 6	3105
2641	8	10	7	29.40	3	+ 3.0228	− 0.0015	− 4	29	32.3	3	− 17.680	− 0.200	83.6	− 4	2817
2642	8.7		7	44.13	5	3.0215	0.0014	− 4	37	33.5	3	17.696	0.200	83.3	− 4	2819
2643	7.8		7	46.23	4	2.9975	0.0005	− 6	47	27.5	4	17.697	0.198	83.3	− 6	3109
2644	8		7	50.75	3	3.0336	0.0019	− 3	31	46.6	3	17.700	0.200	84.3	− 3	2873
2645	9.8		7	56.39	1	3.0246	0.0015	− 4	21	1.6	1	17.704	0.199	87.3	− 4	2821
2646	8.9	10	8	37.13	4	+ 3.0475	− 0.0024	− 2	16	52.5	4	− 17.732	− 0.200	86.6	− 2	3097
2647	8.9		9	49.10	2	3.0527	0.0026	− 1	49	4.8	2	17.781	0.198	86.2	− 1	2366
2648	8		9	58.72	2	3.0237	0.0014	− 4	29	59.8	2	17.787	0.196	90.2	− 4	2827
2649	9.8		10	9.46	3	3.0366	0.0019	− 3	19	1.0	3	17.794	0.197	90.0	− 3	2877
2650	8		10	15.15	1	3.0159	0.0011	− 5	13	53.8	1	17.798	0.195	84.3	− 5	3028

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		h	m	s		s	s	°	′	″		″	″		°	
2651	9.8	10	10	21.23	2	+ 3.0222	— 0.0013	— 4	39	40.7	2	— 17.802	— 0.195	90.8	— 4	2830
2652	8.9		10	29.46	3	3.0508	0.0025	— 2	0	16.8	3	17.808	0.197	83.3	— 1	2369
2653	8		10	41.49	1	3.0488	0.0024	— 2	12	1.4	1	17.816	0.196	86.3	— 2	3108
2654	9		10	49.35	1	3.0161	0.0010	— 5	14	38.9	1	17.821	0.194	85.3	— 5	3031
2655	9		10	56.28	1	3.0334	0.0017	— 3	38	25.1	1	17.826	0.195	88.3	— 3	2881
2656	8	10	11	27.14	2	+ 3.0411	— 0.0020	— 2	56	7.8	2	— 17.846	— 0.195	87.3	— 2	3110
2657	6		11	39.90	1	2.9925	0.0000	— 7	28	9.8	1	17.855	0.191	85.3	— 7	3001
2658	8.9		11	53.60	6	3.0381	0.0019	— 3	13	25.1	3	17.864	0.194	89.0	— 3	2887
2659	8		12	12.57	6	3.0376	0.0018	— 3	16	41.2	3	17.876	0.193	88.9	— 3	2890
2660	6.7		13	29.80	6	3.0252	0.0012	— 4	30	9.3	5	17.927	0.190	89.1; 90.5	— 4	2840
2661	9	10	13	29.81	3	+ 3.0425	— 0.0020	— 2	51	11.4	3	— 17.927	— 0.191	89.6	— 2	3117
2662	8.9		13	32.02	3	3.0399	0.0019	— 3	6	10.8	3	17.928	0.191	81.9	— 2	3118
2663	8		13	33.38	3	3.0239	0.0012	— 4	37	29.3	3	17.929	0.190	89.1; 85.3	— 4	2841
2664	8		14	3.43	2	3.0334	0.0016	— 3	44	30.6	2	17.949	0.190	87.3	— 3	2900
2665	8.7		14	37.50	3	3.0143	0.0007	— 5	35	23.7	3	17.971	0.187	82.6	— 5	3043
2666	7	10	15	4.74	2	+ 3.0226	— 0.0011	— 4	48	44.6	2	— 17.989	— 0.187	85.8	— 4	2847
2667	8		15	31.11	9	3.0389	0.0017	— 3	15	21.8	7	18.006	0.187	87.5	— 3	2904
2668	9		15	52.05	1	3.0385	0.0017	— 3	17	55.5	1	18.019	0.187	87.3	— 3	2905
2669	9		15	54.65	1	3.0529	0.0023	— 1	53	45.7	1	18.021	0.188	94.2	—	—
2670	8		16	20.08	3	3.0333	0.0014	— 3	49	13.7	3	18.037	0.186	84.3	— 3	2907
2671	9	10	16	22.55	4	+ 3.0387	— 0.0017	— 3	17	37.3	1	— 18.039	— 0.186	88.8	— 3	2908
2672	8.9		16	35.28	2	3.0404	0.0017	— 3	8	10.3	2	18.047	0.186	88.3	— 3	2909
2673	8.9		16	59.93	4	3.0532	0.0023	— 1	53	8.9	3	18.062	0.186	84.2; 80.9	— 1	2381
2674	8		17	16.79	1	2.9995	+ 0.0001	— 7	10	10.4	1	18.073	0.182	81.3	— 7	3021
2675	9		17	17.53	1	3.0050	— 0.0001	— 6	37	51.0	1	18.074	0.182	93.3	— 6	3136
2676	6	10	17	22.51	4	+ 3.0373	— 0.0016	— 3	28	2.5	4	— 18.077	— 0.184	90.8	— 3	2911
2677	8.7		17	27.89	5	3.0417	0.0018	— 3	2	12.1	3	18.080	0.184	84.9	— 2	3132
2678	9.8		17	53.67	2	3.0052	0.0001	— 6	39	6.3	1	18.096	0.181	87.8; 82.3	— 6	3139
2679	8.7		18	3.01	5	3.0290	0.0011	— 4	19	10.8	5	18.102	0.182	87.3	— 4	2861
2680	8		18	24.68	1	3.0021	0.0000	— 6	58	46.3	1	18.116	0.180	84.3	— 6	3140
2681	8	10	18	52.42	5	+ 3.0388	— 0.0017	— 3	22	0.4	5	— 18.133	— 0.181	88.1	— 3	2914
2682	8.9		19	15.10	1	3.0325	0.0012	— 4	0	17.6	1	18.147	0.180	86.3	— 3	2916
2683	8.9		19	21.42	2	3.0537	0.0022	— 1	52	46.9	2	18.151	0.182	85.8	— 1	2386
2684	8		19	56.95	1	3.0005	+ 0.0002	— 7	14	54.8	1	18.173	0.177	85.3	— 7	3030
2685	8.9		20	10.25	2	3.0384	— 0.0015	— 3	26	32.3	2	18.181	0.179	86.3	— 3	2920
2686	7.8	10	20	16.71	4	+ 3.0149	— 0.0004	— 5	49	3.9	3	— 18.185	— 0.178	85.0	— 5	3062
2687	6.7		20	43.11	5	3.0353	0.0014	— 3	46	42.2	4	18.202	0.178	85.9	— 3	2921
2688	8.9		21	3.50	1	3.0336	0.0012	— 3	57	46.1	1	18.214	0.177	86.3	— 3	2924
2689	8		21	22.74	2	3.0020	+ 0.0003	— 7	11	29.2	2	18.226	0.175	82.8	— 7	3039
2690	8.7		21	30.22	2	3.0440	— 0.0017	— 2	54	27.6	1	18.230	0.177	87.3	— 2	3147
2691	8.9	10	21	30.89	4	+ 3.0351	— 0.0012	— 3	49	26.3	2	— 18.230	— 0.177	85.5; 86.8	— 3	2925
2692	8		21	50.76	3	3.0520	0.0020	— 2	6	7.0	3	18.243	0.177	85.3	— 1	2391
2693	9.8		21	59.90	2	3.0446	0.0017	— 2	52	5.9	1	18.248	0.176	87.3	— 2	3149
2694	9.8		22	7.25	4	3.0316	0.0010	— 4	12	38.9	4	18.253	0.175	87.3	— 4	2878
2695	8		22	13.46	2	3.0144	0.0002	— 5	58	45.2	2	18.256	0.174	84.8	— 5	3071
2696	8	10	22	32.01	3	+ 3.0174	— 0.0003	— 5	41	28.7	3	— 18.268	— 0.174	85.0	— 5	3073
2697	7.6		22	39.01	7	3.0422	0.0015	— 3	7	45.7	7	18.272	0.175	87.3	— 3	2929
2698	9.8		22	40.32	3	3.0260	0.0007	— 4	48	17.8	3	18.272	0.174	86.3	— 4	2883
2699	5.6		23	22.98	5	3.0520	0.0019	— 2	7	32.6	4	18.298	0.174	85.6; 84.5	— 2	3155
2700	8.9		23	44.26	3	3.0373	0.0012	— 3	40	37.8	3	18.311	0.173	85.0	— 3	2933

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
2701	8	10	23	45.05	4	+ 3.0409	— 0.0013	— 3	18	3.8	3	— 18.311	— 0.173	87.0	— 3	2934
2702	8		24	6.79	1	3.0431	0.0015	— 3	4	56.7	1	18.324	0.172	80.3	— 2	3160
2703	9.8		24	39.21	2	3.0324	0.0009	— 4	13	42.6	2	18.343	0.171	83.3	— 4	2890
2704	8.9		24	55.97	3	3.0542	0.0020	— 1	55	25.6	3	18.353	0.172	83.3	— 1	2398
2705	9.8		24	57.18	2	3.0121	+ 0.0001	— 6	22	57.8	2	18.354	0.169	87.8	— 6	3172
2706	8.9	10	25	21.14	6	+ 3.0430	— 0.0014	— 3	7	43.3	6	— 18.368	— 0.170	87.6	— 3	2939
2707	9		26	0.28	2	3.0456	0.0015	— 2	52	16.8	2	18.391	0.169	87.3	— 2	3167
2708	8		26	1.04	1	3.0534	0.0019	— 2	2	26.7	1	18.391	0.170	80.3	— 1	2403
2709	7		26	26.15	4	3.0216	0.0003	— 5	27	27.7	4	18.406	0.167	83.8	— 5	3080
2710	8		26	29.01	6	3.0393	0.0012	— 3	34	0.8	5	18.407	0.168	85.8	— 3	2943
2711	7.8	10	27	10.62	6	+ 3.0286	— 0.0006	— 4	44	25.9	6	— 18.431	— 0.166	86.3	— 4	2898
2712	8.9		27	32.20	2	3.0388	0.0011	— 3	39	27.7	2	18.444	0.166	86.8	— 3	2947
2713	9.8		27	50.41	1	3.0420	0.0012	— 3	18	50.0	1	18.454	0.166	88.3	— 3	2948
2714	8.9		28	14.51	2	3.0443	0.0013	— 3	4	38.8	2	18.468	0.165	83.3	— 2	3173
2715	9.8		28	32.81	1	3.0407	0.0011	— 3	29	14.3	1	18.478	0.164	92.2	— 3	2949
2716	7.8	10	28	45.17	6	+ 3.0427	— 0.0012	— 3	16	32.3	5	— 18.485	— 0.164	89.0	— 3	2950
2717	8.7		29	22.36	4	3.0296	0.0005	— 4	44	32.0	4	18.506	0.162	88.5	— 4	2906
2718	9		29	57.30	1	3.0511	0.0016	— 2	22	47.4	1	18.526	0.162	90.3	— 2	3178
2719	9		30	10.21	1	3.0428	0.0011	— 3	18	58.0	1	18.533	0.162	87.3	— 3	2958
2720	8.9		30	24.78	2	3.0258	0.0002	— 5	12	53.6	2	18.541	0.160	86.3	— 5	3108
2721	8.9	10	30	52.62	4	+ 3.0087	+ 0.0007	— 7	9	38.9	4	— 18.556	— 0.158	85.5	— 7	3070
2722	9		31	14.37	1	3.0404	— 0.0009	— 3	37	30.6	1	18.568	0.160	87.3	— 3	2962
2723	9		31	22.51	1	3.0186	+ 0.0002	— 6	5	1.9	1	18.573	0.158	85.3	— 5	3017
2724	9.8		31	36.51	1	3.0436	— 0.0011	— 3	16	2.3	1	18.581	0.159	88.3	— 3	2965
2725	8		32	30.66	3	3.0151	+ 0.0005	— 6	33	33.0	3	18.610	0.156	87.0	— 6	3201
2726	8.9	10	32	32.05	4	+ 3.0560	— 0.0017	— 1	52	37.7	4	— 18.611	— 0.158	87.0	— 1	2418
2727	9		32	47.82	1	3.0443	— 0.0010	— 3	13	43.7	1	18.620	0.157	87.3	— 3	2969
2728	8.9		33	5.82	4	3.0268	— 0.0001	— 5	15	30.4	4	18.629	0.155	85.8	— 5	3114
2729	8		33	13.75	2	3.0240	+ 0.0001	— 5	35	18.2	2	18.634	0.155	81.8	— 5	3116
2730	8		34	13.40	1	3.0204	+ 0.0004	— 6	4	2.9	1	18.666	0.153	85.3	— 5	3120
2731	9.8	10	35	3.97	3	+ 3.0458	— 0.0010	— 3	8	9.8	3	— 18.692	— 0.153	81.9	— 3	2976
2732	8		35	50.16	8	3.0434	— 0.0008	— 3	26	52.1	8	18.717	0.151	86.3	— 3	2977
2733	8		35	50.97	1	3.0223	+ 0.0004	— 5	56	50.6	1	18.717	0.150	84.3	— 5	3124
2734	9		36	1.15	1	3.0311	— 0.0001	— 4	55	24.2	1	18.722	0.150	95.3	—	—
2735	8.9		36	26.10	2	3.0291	0.0000	— 5	11	9.3	2	18.736	0.149	86.3	— 5	3125
2736	8	10	36	58.34	5	+ 3.0410	— 0.0006	— 3	46	44.2	5	— 18.752	— 0.149	85.5	— 3	2980
2737	8.9		37	23.32	1	3.0454	— 0.0008	— 3	16	18.6	1	18.765	0.149	87.3	— 3	2983
2738	9.8		37	47.94	1	3.0525	— 0.0012	— 2	25	1.7	1	18.778	0.148	91.3	— 2	3208
2739	8		37	50.92	3	3.0276	+ 0.0002	— 5	27	0.6	3	18.779	0.147	83.3	— 5	3133
2740	9		38	2.45	2	3.0321	0.0000	- 4	54	36.6	2	18.785	0.147	92.3	— 4	2936
2741	8.9	10	38	27.83	2	+ 3.0574	— 0.0014	— 1	50	36.4	2	— 18.798	— 0.147	86.2	— 1	2435
2742	9.8		39	32.81	2	3.0163	+ 0.0010	— 6	56	56.8	2	18.831	0.143	88.3	— 6	3227
2743	9.8		39	40.87	1	3.0350	— 0.0001	— 4	38	39.5	1	18.835	0.143	78.3	— 4	2939
2744	8		40	9.16	3	3.0314	+ 0.0002	— 5	7	47.5	3	18.849	0.143	83.6	— 4	2941
2745	9		40	17.34	1	3.0405	— 0.0003	— 3	59	45.7	1	18.853	0.143	87.3	— 3	2991
2746	8	10	40	44.95	8	+ 3.0347	0.0000	— 4	45	1.4	7	— 18.867	— 0.142	86.3; 87.4	— 4	2946
2747	9		41	52.13	3	3.0458	— 0.0006	— 3	23	38.5	3	18.900	0.140	84.6	— 2	2996
2748	9		42	38.32	1	3.0474	— 0.0006	— 3	13	22.7	1	18.922	0.139	88.3	— 3	2998
2749	9.8		42	38.72	1	3.0488	— 0.0007	— 3	2	55.1	1	18.922	0.139	78.2	— 2	3224
2750	9		42	52.51	3	3.0217	+ 0.0010	— 6	32	34.3	3	18.929	0.137	87.0	— 6	3283

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
2751	8	10	43	5.22	5	+ 3.0356	+ 0.0002	— 4	46	22.2	3	— 18.935	— 0.138	86.7; 87.6	— 4	2952
2752	7		43	12.11	5	3.0463	— 0.0005	— 3	23	23.3	5	18.938	0.138	86.5	— 3	2999
2753	8.9		43	22.56	5	3.0351	+ 0.0002	— 4	51	12.6	3	18.943	0.137	86.5; 89.3	— 4	2954
2754	8.9		43	28.23	1	3.0543	— 0.0010	2	21	46.8	1	18.946	0.138	78.2	— 2	3228
2755	9.8		43	28.50	1	3.0586	— 0.0012	— 1	47	41.9	1	18.946	0.138	78.3	— 1	2449
2756	9	10	43	30.09	1	+ 3.0252	+ 0.0008	— 6	8	15.1	1	— 18.947	— 0.136	85.3	— 6	3235
2757	8.9		43	46.25	2	3.0566	— 0.0011	— 2	3	50.1	1	18.955	0.137	92.2; 90.2	— 1	2450
2758	9		43	54.96	1	3.0447	— 0.0003	— 3	37	31.4	1	18.959	0.137	86.3	— 3	3000
2759	8.9		44	1.59	3	3.0528	— 0.0008	— 2	34	6.2	3	18.960	0.137	86.3	— 2	3230
2760	8.9		44	23.22	2	3.0568	— 0.0011	— 2	3	29.7	1	18.972	0.136	92.2; 94.2	— 1	2452
2761	9.8	10	44	24.68	3	+ 3.0265	+ 0.0008	— 6	2	18.2	1	— 18.973	— 0.135	86.0; 79.3	— 5	3151
2762	9		44	33.22	1	3.0259	+ 0.0009	— 6	8	10.3	1	18.977	0.135	93.3	— 6	3239
2763	9.8		44	40.98	3	3.0414	— 0.0001	— 4	6	19.0	2	18.981	0.135	84.6; 83.3	— 3	3003
2764	8.9		44	56.64	2	3.0344	+ 0.0004	— 5	2	28.7	1	18.988	0.134	91.3	— 4	2962
2765	6.7		44	59.41	4	3.0539	— 0.0008	— 2	27	25.0	2	18.989	0.135	81.5	— 2	3236
2766	8.9	10	45	6.33	3	+ 3.0346	+ 0.0004	— 5	1	42.2	2	— 18.992	— 0.134	88.0; 86.3	— 4	2963
2767	9.8		45	8.47	3	3.0444	— 0.0002	— 3	43	15.0	3	18.994	0.134	83.0	— 3	3004
2768	7		45	13.49	4	3.0416	0.0000	— 4	6	2.5	2	18.996	0.134	85.0; 86.8	— 3	3005
2769	9.8		45	38.33	1	3.0498	— 0.0005	— 3	1	38.5	1	19.007	0.134	87.3	— 2	3238
2770	8.9		45	49.40	6	3.0465	— 0.0003	— 3	29	0.8	5	19.013	0.133	85.3; 86.3	— 3	3006
2771	8	10	46	39.49	3	+ 3.0255	+ 0.0011	— 6	21	5.4	3	— 19.036	— 0.131	86.9	— 6	3250
2772	8		46	43.54	3	3.0482	— 0.0004	— 3	16	48.4	3	19.038	0.132	85.0	— 3	3010
2773	8		46	47.24	2	3.0269	+ 0.0010	— 6	10	45.4	2	19.039	0.130	94.8	— 6	3252
2774	9.8		46	50.83	1	3.0546	— 0.0008	— 2	24	53.6	1	19.041	0.132	94.2	— 2	3241
2775	9		47	1.96	2	3.0365	+ 0.0004	— 4	53	46.9	2	19.046	0.130	81.3	— 4	2968
2776	9	10	47	30.98	1	+ 3.0377	+ 0.0004	— 4	45	43.7	1	— 19.059	— 0.130	86.3	— 4	4972
2777	8.9		47	36.59	4	3.0458	— 0.0001	— 3	39	56.7	4	19.062	0.130	85.8	— 3	3013
2778	8		47	55.71	8	3.0478	— 0.0002	— 3	24	10.3	8	19.070	0.129	86.0	— 3	3015
2779	9.8		48	8.55	1	3.0283	+ 0.0010	— 6	5	32.5	1	19.076	0.128	85.3	— 5	3161
2780	9		48	31.52	1	3.0498	— 0.0004	— 3	8	37.5	1	19.086	0.128	87.3	— 3	3018
2781	8.9	10	48	42.55	4	+ 3.0566	— 0.0008	— 2	12	30.2	4	— 19.091	— 0.128	86.6	— 2	3247
2782	8.9		49	17.66	2	3.0228	+ 0.0015	— 6	57	39.1	2	19.107	0.126	88.3	— 6	3264
2783	8.9		49	18.63	2	3.0283	+ 0.0011	— 6	11	24.6	2	19.107	0.126	86.3	— 6	3265
2784	8.9		49	20.40	1	3.0274	+ 0.0012	— 6	19	16.0	1	19.108	0.126	93.3	— 6	3266
2785	8		49	39.72	11	3.0376	+ 0.0006	— 4	54	36.6	10	19.117	0.126	86.2	— 4	2975
2786	8.9	10	49	52.09	4	+ 3.0565	— 0.0008	— 2	15	4.3	4	— 19.122	— 0.126	88.0	— 2	3251
2787	8.9		50	12.59	5	3.0498	— 0.0002	— 3	12	55.6	5	19.131	0.126	85.7	— 3	3020
2788	9.8		50	35.20	1	3.0433	+ 0.0003	— 4	9	42.9	1	19.141	0.124	87.3	— 4	2977
2789	8		52	48.19	8	3.0451	+ 0.0003	— 4	2	11.5	8	19.198	0.120	87.0	— 3	3024
2790	9		52	51.92	1	3.0509	— 0.0001	— 3	10	25.7	1	19.200	0.120	87.3	— 3	3025
2791	8.9	10	53	27.89	6	+ 3.0473	+ 0.0002	— 3	44	55.8	6	— 19.215	— 0.119	88.1	— 3	3028
2792	8.9		53	28.13	4	3.0486	+ 0.0001	— 3	32	59.7	4	19.215	0.119	86.5	— 3	3027
2793	8.9		53	41.73	5	3.0160	+ 0.0017	— 6	55	59.6	5	19.220	0.118	89.5	— 6	3281
2794	7.8		53	55.07	5	3.0536	— 0.0002	— 2	49	47.4	5	19.226	0.118	83.3	— 2	3264
2795	8		54	10.11	2	3.0381	+ 0.0009	— 5	9	54.5	2	19.232	0.117	82.3	— 5	3182
2796	8.9	10	55	3.86	5	+ 3.0393	+ 0.0009	— 5	2	47.4	5	— 19.254	— 0.116	87.1	— 4	2996
2797	9.8		55	13.08	1	3.0605	— 0.0007	— 1	49	9.8	1	19.258	0.116	82.3	— 1	2469
2798	9		55	31.67	2	3.0311	+ 0.0016	— 6	20	13.0	2	19.266	0.114	87.8	— 6	3289
2799	9		55	34.44	4	3.0518	0.0000	— 3	10	12.3	4	19.267	0.115	87.8	— 3	3036
2800	6		55	42.36	8	3.0604	0.0006	— 1	50	19.1	6	19.270	0.115	84.2	— 1	2471

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	′	″		″	″		°
2801	7	10	56	30.50	8	+ 3.0540	— 0.0001	— 2	52	2.9	8	— 19.289	— 0.114	85.9	— 2 3270
2802	8		56	41.42	4	3.0356	+ 0.0013	— 5	44	56.6	4	19.294	0.112	87.8	— 5 3189
2803	8		56	51.11	2	3.0597	— 0.0005	— 1	59	24.4	2	19.297	0.113	86.8	— 1 2473
2804	7.8		57	46.40	4	3.0281	+ 0.0020	— 7	2	23.1	4	19.319	0.110	87.5	— 6 3300
2805	8		58	20.10	3	3.0429	+ 0.0009	— 4	44	31.3	3	19.332	0.110	83.6	— 4 3006
2806	8	10	58	36.81	11	+ 3.0502	+ 0.0004	— 3	34	16.6	11	— 19.339	— 0.109	86.2	— 3 3040
2807	8.9		59	12.98	2	3.0364	+ 0.0015	— 5	51	36.2	2	19.353	0.108	90.8	— 5 3196
2808	8	11	0	1.60	3	3.0338	+ 0.0018	— 6	21	35.6	3	19.371	0.106	86.9	— 6 3305
2809	9		0	43.88	2	3.0555	+ 0.0001	— 2	49	4.2	2	19.387	0.106	90.3	— 2 3287
2810	9		0	49.30	1	3.0519	+ 0.0004	— 3	25	52.1	1	19.389	0.105	87.3	— 3 3048
2811	9.8	11	1	25.09	2	+ 3.0487	+ 0.0007	— 3	59	55.4	2	— 19.402	— 0.104	85.3	— 3 3052
2812	8		1	25.55	1	3.0358	+ 0.0018	— 6	9	54.9	1	19.402	0.106	85.3	— 6 3310
2813	8		2	11.92	9	3.0534	+ 0.0004	— 3	14	51.3	8	19.419	0.103	86.8	— 3 3053
2814	8		2	46.43	1	3.0604	— 0.0002	— 2	4	3.3	1	19.432	0.102	88.3	— 1 2490
2815	9		3	14.00	4	3.0528	+ 0.0005	— 3	25	14.6	4	19.442	0.101	87.6	— 3 3058
2816	8	11	3	42.75	3	+ 3.0430	+ 0.0014	— 5	9	45.4	3	— 19.452	— 0.100	83.0	— 5 3216
2817	7		4	10.84	4	3.0343	+ 0.0022	— 6	43	59.8	4	19.462	0.098	88.5	— 6 3317
2818	8		4	14.08	5	3.0383	+ 0.0019	— 6	2	17.1	4	19.463	0.098	87.9	— 5 3218
2819	9.8		4	29.43	9	3.0543	+ 0.0005	— 3	13	26.9	9	19.468	0.098	85.8	— 3 3059
2820	8		5	3.20	4	3.0464	+ 0.0013	— 4	40	14.2	4	19.480	0.097	84.8	— 4 3022
2821	7.8	11	5	10.81	5	+ 3.0456	+ 0.0013	— 4	49	7.5	5	— 19.483	— 0.097	83.3	— 4 3024
2822	9.8		5	13.60	3	3.0491	+ 0.0010	— 4	11	33.1	3	19.484	0.097	86.9	— 4 3025
2823	9.8		5	16.63	2	3.0624	— 0.0002	— 1	47	58.5	2	19.485	0.097	87.8	— 1 2494
2824	9.8		5	46.82	4	3.0547	+ 0.0006	— 3	13	12.9	4	19.495	0.096	91.0	— 3 3065
2825	9.8		6	28.99	3	3.0538	+ 0.0007	— 3	25	29.5	3	19.510	0.095	87.3	— 3 3066
2826	8	11	6	40.68	2	+ 3.0483	+ 0.0012	— 4	27	54.6	2	— 19.514	— 0.094	83.3	— 4 3028
2827	8.9		6	50.14	9	3.0553	0.0006	— 3	10	50.0	9	19.517	0.094	86.6	— 3 3067
2828	9		6	57.09	3	3.0368	0.0023	— 6	36	28.3	3	19.519	0.093	90.0	— 6 3328
2829	8.9		7	19.76	1	3.0468	0.0014	— 4	47	45.0	1	19.527	0.093	89.3	— 4 3030
2830	9		7	23.32	1	3.0504	0.0011	— 4	7	1.4	1	19.528	0.093	87.3	— 3 3068
2831	9.8	11	7	54.43	1	+ 3.0366	+ 0.0024	— 6	46	16.5	1	— 19.538	— 0.091	92.3	— 6 3331
2832	9.8		8	18.16	2	3.0631	0.0000	— 1	46	30.7	2	19.546	0.092	87.8	— 1 2499
2833	9.8		8	44.35	1	3.0500	0.0013	— 4	18	38.4	1	19.554	0.090	92.3	— 4 3037
2834	8.9		9	16.79	1	3.0396	0.0023	— 6	21	43.3	1	19.565	0.089	80.3	— 6 3336
2835	8.9		9	17.06	5	3.0504	0.0013	— 4	16	49.5	4	19.565	0.089	86.9; 85.5	— 4 3040
2836	9	11	9	28.45	1	+ 3.0511	+ 0.0012	— 4	9	1.0	1	— 19.568	— 0.089	87.3	— 4 3041
2837	8		10	4.54	6	3.0581	0.0006	— 2	49	5.9	4	19.580	0.088	88.6	— 2 3312
2838	8.9		10	11.46	4	3.0567	0.0007	— 3	6	24.9	3	19.582	0.088	84.8; 86.3	— 2 3313
2839	9.8		10	14.96	2	3.0396	0.0024	— 6	29	9.9	1	19.583	0.087	94.8; 96.3	— 6 3340
2840	9.8		10	22.39	1	3.0505	0.0014	— 4	20	37.0	1	19.586	0.087	78.3	— 4 3042
2841	7	11	10	29.54	13	+ 3.0558	+ 0.0009	— 3	18	44.2	7	— 19.588	— 0.087	87.5	— 3 3085
2842	5		10	33.55	6	3.0574	0.0007	— 2	59	46.2	4	19.589	0.087	85.6	— 2 3815
2843	8.9		10	37.89	12	3.0559	0.0008	— 3	17	16.2	6	19.590	0.087	87.9	— 3 3086
2844	8.9		10	43.37	1	3.0499	0.0015	— 4	29	49.9	1	19.591	0.086	86.3	— 4 3044
2845	6.7		10	53.21	6	3.0400	0.0025	— 6	28	49.0	4	19.595	0.086	89.0; 86.0	— 6 3344
2846	8.9	11	10	57.38	5	+ 3.0401	+ 0.0025	— 6	28	59.9	1	— 19.596	— 0.086	90.3; 93.3	— 6 3345
2847	9		11	31.29	1	3.0492	0.0016	— 4	43	27.5	1	19.607	0.085	89.3	— 4 3045
2848	9.8		11	42.04	5	3.0681	0.0002	— 1	54	2.2	5	19.610	0.085	87.9	— 1 2506
2849	7.8		12	9.94	6	3.0510	0.0015	— 4	24	26.0	6	19.619	0.084	88.5	— 4 3049
2850	8		12	19.29	5	3.0470	0.0019	— 5	14	27.4	5	19.621	0.083	85.3	— 5 3250

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
2851	9.8	11	12	21.10	1	+ 3.0381	+ 0.0028	− 7	4	21.5	1	− 19.622	− 0.083	93.2	− 6	3350
2852	9		12	45.50	2	3.0529	0.0014	− 4	4	13.5	2	19.629	0.083	82.8	− 3	3089
2853	8.9		13	17.49	1	3.0395	0.0028	− 6	54	59.8	1	19.639	0.081	92.3	− 6	3355
2854	8.9		13	39.59	1	3.0430	0.0025	− 6	14	37.9	1	19.645	0.081	80.3	− 6	3356
2855	9.8		13	59.89	1	3.0510	0.0017	− 4	34	33.0	1	19.651	0.080	86.3	− 4	3052
2856	9.8	11	14	24.68	1	+ 3.0620	+ 0.0005	− 2	14	24.4	1	− 19.658	− 0.080	91.2	− 2	3325
2857	9.8		14	54.92	7	3.0571	0.0011	− 3	20	25.8	7	19.667	0.079	89.0	− 3	3096
2858	7.8		15	9.80	4	3.0555	0.0013	− 3	42	34.6	4	19.671	0.078	85.8	− 3	3098
2859	8		15	41.16	3	3.0496	0.0020	− 5	3	40.2	2	19.680	0.077	87.0	− 4	3057
2860	8.9		16	0.21	2	3.0646	0.0003	− 1	43	51.0	2	19.686	0.077	87.8	− 1	2516
2861	8.9	11	16	16.02	5	+ 3.0524	+ 0.0018	− 4	29	24.4	5	− 19.690	− 0.076	88.9	− 4	3058
2862	9.8		16	30.21	1	3.0520	0.0018	− 4	37	17.1	1	19.694	0.076	89.3	− 4	3060
2863	9.8		16	47.65	3	3.0636	0.0005	− 1	59	9.2	2	19.698	0.075	90.7; 88.3	− 1	2517
2864	9		16	57.66	2	3.0575	0.0012	− 3	23	34.4	2	19.701	0.075	91.8	− 3	3103
2865	9.8		17	41.00	3	3.0640	0.0006	− 1	56	50.4	2	19.713	0.074	90.7; 91.8	− 1	2518
2866	8.9	11	17	46.09	5	+ 3.0445	+ 0.0028	− 6	29	20.3	5	− 19.714	− 0.073	87.9	− 6	3370
2867	7.6		18	16.34	4	3.0501	0.0022	− 5	14	55.8	4	19.722	0.072	86.8	− 5	3275
2868	9		18	24.47	1	3.0566	0.0015	− 3	43	23.7	1	19.724	0.072	87.3	− 3	3109
2869	9		18	43.54	3	3.0467	0.0027	− 6	6	33.1	3	19.729	0.071	86.3	− 5	3276
2870	8.9		19	25.71	2	3.0426	0.0033	− 7	11	38.0	2	19.740	0.070	86.8	− 7	3233
2871	9	11	19	58.95	2	+ 3.0446	+ 0.0032	− 6	51	26.0	2	− 19.749	− 0.069	88.3	− 6	3379
2872	9.8		20	17.12	2	3.0536	0.0021	− 4	39	40.8	2	19.753	0.068	85.3	− 4	3071
2873	8.9		21	56.00	3	3.0654	0.0007	− 1	48	42.3	3	19.778	0.065	92.3	− 1	2528
2874	8.9		22	4.41	5	3.0467	0.0032	− 6	38	17.7	5	19.780	0.065	87.3	− 6	3387
2875	9		22	21.51	1	3.0592	0.0015	− 3	27	13.8	1	19.784	0.064	89.3	− 3	3125
2876	9.8	11	22	31.53	4	+ 3.0620	+ 0.0012	− 2	43	0.1	4	− 19.786	− 0.064	90.5	− 2	3353
2877	9.8		23	5.40	1	3.0497	0.0029	− 6	2	12.3	1	19.794	0.063	78.3	− 5	3299
2878	8.7		23	7.25	6	3.0582	0.0018	− 3	47	16.6	6	19.795	0.063	87.6	− 3	3128
2879	6.5		24	11.04	11	3.0638	0.0011	− 2	20	29.7	11	19.809	0.061	86.9	− 2	3360
2880	8		24	44.55	2	3.0506	0.0030	− 6	3	25.2	2	19.817	0.060	85.8	− 5	3304
2881	9.8	11	25	13.00	1	+ 3.0595	+ 0.0018	− 3	38	20.2	1	− 19.823	− 0.059	93.3	− 3	3134
2882	9.8		25	18.60	5	3.0561	0.0023	− 4	35	49.1	5	19.824	0.059	85.1	− 4	3084
2883	7.8		25	50.42	4	3.0522	0.0030	− 5	48	22.3	4	19.832	0.058	88.8	− 5	3307
2884	8.9		25	59.21	12	3.0624	0.0015	− 2	52	7.8	12	19.833	0.058	87.3	− 2	3364
2885	8		26	17.33	7	3.0553	0.0026	− 4	57	48.4	5	19.837	0.057	87.7; 86.5	− 4	3087
2886	9.8	11	26	24.37	4	+ 3.0562	+ 0.0024	− 4	44	22.6	4	− 19.839	− 0.057	87.6	− 4	3089
2887	8		26	26.01	2	3.0548	0.0026	− 5	8	29.9	1	19.839	0.057	86.8; 78.3	− 5	3309
2888	6.7		26	41.61	4	3.0480	0.0037	− 7	9	55.6	4	19.842	0.056	87.5	− 7	3250
2889	9		26	41.95	1	3.0494	0.0035	− 6	45	3.3	1	19.842	0.056	93.3	− 6	3404
2890	9		26	42.84	2	3.0550	0.0027	− 5	7	48.8	1	19.843	0.056	86.8; 95.3	− 4	3071
2891	8.9	11	26	59.26	6	+ 3.0557	+ 0.0026	− 4	56	41.7	3	− 19.846	− 0.055	85.0; 86.6	− 4	3093
2892	8		27	31.53	2	3.0529	0.0031	− 5	52	26.2	2	19.853	0.054	89.3	− 5	3313
2893	8.9		27	44.86	3	3.0588	0.0022	− 4	7	14.8	2	19.856	0.054	87.0	− 3	3139
2894	8.9		27	56.88	2	3.0609	0.0019	− 3	30	12.2	2	19.858	0.054	92.3	− 3	3140
2895	8		28	15.03	4	3.0566	0.0026	− 4	51	52.0	2	19.862	0.053	85.6; 81.8	− 4	3096
2896	8.9	11	28	33.56	2	+ 3.0566	+ 0.0027	− 4	55	36.8	1	− 19.865	− 0.052	89.3; 86.3	− 4	3098
2897	8		28	38.07	3	3.0586	0.0024	− 4	17	28.3	3	19.866	0.052	84.3	− 4	3099
2898	8.9		28	39.72	8	3.0665	0.0011	− 1	49	46.7	8	19.867	0.052	88.7	− 1	2540
2899	7		28	51.90	4	3.0606	0.0020	− 3	41	48.0	4	19.869	0.052	86.8	− 3	3144
2900	9.8		29	7.63	1	3.0540	0.0032	− 5	49	43.9	1	19.872	0.051	96.3	− 5	3315

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		h	m	s		s	s	°	′	″		″	″		°	
2901	8.9	11	29	27.76	2	+3.0663	+0.0012	−1	56	24.4	1	−19.876	−0.051	84.8; 81.3	−1	2542
2902	8.9		29	44.15	4	3.0597	0.0023	−4	5	35.2	2	19.879	0.050	85.8	−3	3147
2903	8.9		30	17.69	4	3.0602	0.0024	−4	2	14.8	1	19.886	0.049	88.0; 86.3	−3	3150
2904	9.8		30	23.22	1	3.0536	0.0017	−2	55	20.8	1	19.887	0.049	94.3	−2	3378
2905	8.9		31	5.46	6	3.0608	0.0023	−3	55	42.5	4	19.894	0.048	90.5; 92.8	−3	3151
2906	8.9	11	31	17.72	2	+3.0658	+0.0014	−2	13	38.6	2	−19.897	−0.047	85.3	−2	3388
2907	8		31	26.39	7	3.0612	0.0023	−3	50	30.2	3	19.898	0.047	88.6; 88.0	−3	3152
2908	8.7		32	16.25	10	3.0674	0.0013	−1	46	20.1	10	19.907	0.045	88.6	−1	2546
2909	8.9		32	43.20	6	3.0530	0.0039	−6	56	9.4	6	19.912	0.044	89.3	−6	3422
2910	9.8		33	32.78	7	3.0607	0.0026	−4	19	9.5	4	19.920	0.043	89.6; 87.3	−4	3113
2911	8.9	11	33	34.26	6	+3.0563	+0.0035	−5	56	27.0	6	−19.921	−0.043	90.0	−5	3325
2912	8.9		33	48.86	8	3.0609	0.0026	−4	17	28.1	4	19.923	0.042	88.4; 89.5	−4	3114
2913	9.8		34	0.72	1	3.0662	0.0016	−2	19	36.8	1	19.925	0.042	91.2	−2	3389
2914	9		34	25.61	1	3.0600	0.0029	−4	43	30.2	1	19.929	0.041	89.3	−4	3119
2915	8		34	44.27	7	3.0607	0.0028	−4	31	58.3	7	19.932	0.040	86.6	−4	3120
2916	9.8	11	34	47.91	3	+3.0669	+0.0016	−2	6	53.6	3	−19.933	−0.040	87.7	−1	2556
2917	8.9		35	36.87	3	3.0560	0.0039	−6	33	19.8	3	19.940	0.039	85.3	−6	3433
2918	9.8		35	39.59	4	3.0574	0.0036	−6	1	4.2	4	19.941	0.039	87.6	−5	3333
2919	9.8		36	21.30	1	3.0668	0.0018	−2	19	5.5	1	19.947	0.038	91.2	−2	3397
2920	8		36	25.05	8	3.0628	0.0026	−3	59	1.9	7	19.948	0.037	87.5	−3	3164
2921	8.9	11	36	41.02	2	+3.0587	+0.0036	−5	45	4.6	2	−19.950	−0.037	86.8	−5	3338
2922	8		36	42.62	7	3.0655	0.0021	−2	52	41.3	7	19.950	0.037	88.6	−2	3399
2923	8.9		37	18.01	1	3.0613	0.0031	−4	46	26.5	1	19.956	0.036	89.3	−4	3131
2924	9.8		37	19.34	6	3.0633	0.0026	−3	55	37.9	3	19.956	0.036	86.5; 87.3	−3	3166
2925	9		37	42.09	1	3.0685	0.0015	−1	40	52.9	1	19.959	0.035	93.3	−1	2562
2926	6.7	11	37	47.45	6	+3.0587	+0.0038	−6	0	36.2	5	−19.960	−0.034	88.5; 87.5	−5	3340
2927	7.8		37	56.65	2	3.0630	0.0028	−4	8	26.8	2	19.961	0.034	82.8	−3	3167
2928	9.8		38	2.52	5	3.0614	0.0032	−4	54	24.9	5	19.962	0.034	91.3	−4	3132
2929	9.8		38	14.74	2	3.0593	0.0037	−5	53	31.7	2	19.964	0.034	85.8	−5	3342
2930	9.8		38	30.72	5	3.0566	0.0044	−7	9	17.8	5	19.966	0.033	86.7	−7	3279
2931	8	11	38	33.98	7	+3.0640	+0.0027	−3	50	37.2	4	−19.966	−0.033	88.6; 86.1	−3	3169
2932	9.8		38	41.98	9	3.0638	0.0027	−3	55	32.9	6	19.967	0.033	87.0; 88.8	−3	3170
2933	8.9		39	10.00	3	3.0599	0.0037	−5	50	26.8	3	19.971	0.032	89.3	−5	3346
2934	9.8		40	0.81	3	3.0602	0.0038	−5	58	21.0	3	19.978	0.030	86.6	−5	3349
2935	9.8		40	2.28	2	3.0578	0.0044	−7	6	8.6	2	19.978	0.030	85.8	−6	3443
2936	8.9	11	40	11.82	4	+3.0676	+0.0020	−2	20	9.8	4	−19.979	−0.030	84.3	−2	3410
2937	8		40	13.81	5	3.0629	0.0032	−4	40	57.9	5	19.979	0.030	88.3	−4	3137
2938	8		40	32.60	2	3.0662	0.0026	−3	4	31.0	2	19.982	0.029	91.3	−2	3411
2939	8.9		40	36.57	4	3.0644	0.0029	−4	1	43.9	4	19.982	0.029	88.3	−3	3173
2940	8.9		41	2.02	6	3.0636	0.0032	−4	30	49.6	5	19.985	0.028	86.3; 84.7	−4	3140
2941	8	11	41	23.82	10	+3.0636	+0.0032	−4	35	44.4	5	−19.988	−0.028	86.4; 90.3	−4	3144
2942	9.8		41	25.76	1	3.0613	0.0038	−5	48	8.9	1	19.988	0.028	93.3	−5	3353
2943	8.9		42	18.08	4	3.0677	0.0022	−2	34	19.2	4	19.994	0.026	87.1	−2	3417
2944	9.8		42	58.76	3	3.0635	0.0036	−5	6	58.6	3	19.999	0.025	89.3	−4	3148
2945	7		43	3.32	6	3.0608	0.0044	−6	41	37.4	4	19.999	0.024	86.5	−6	3455
2946	8.7	11	43	7.76	4	+3.0617	+0.0042	−6	13	43.0	4	−20.000	−0.024	86.0	−6	3456
2947	9		43	20.95	1	3.0653	0.0031	−4	8	19.6	1	20.001	0.024	93.3	−3	3182
2948	9.8		43	27.96	5	3.0688	0.0020	−2	4	44.5	4	20.002	0.024	90.3	−1	2572
2949	8.9		43	44.35	6	3.0654	0.0031	−4	10	57.5	5	20.003	0.023	87.0	−4	3149
2950	8		44	11.34	5	3.0615	0.0045	−6	42	30.6	2	20.006	0.022	85.3; 87.8	−6	3460

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		h m s		s	s	° ′ ″		″	″		°
2951	8.9	11 44 21.49	3	+ 3.0635	+ 0.0039	− 5 32 39.7	3	− 20.007	− 0.022	86.0	− 5 3307
2952	9.8	44 47.76	1	3.0647	0.0030	− 4 56 10.3	1	20.010	0.021	89.3	− 4 3151
2953	6	44 54.18	8	3.0652	0.0035	− 4 39 57.5	8	20.010	0.021	88.9	− 4 3152
2954	9.8	45 21.23	4	3.0634	0.0042	- 5 57 51.7	4	20.013	0.020	88.6	− 5 3371
2955	9.8	45 42.42	3	3.0649	0.0037	− 5 5 34.6	3	20.015	0.018	89.3	− 4 3155
2956	9.8	11 45 55.87	3	+ 3.0634	+ 0.0043	− 6 12 17.4	3	− 20.016	− 0.019	90.6	− 6 3467
2957	8.9	47 19.20	5	3.0682	0.0029	− 3 12 56.8	3	20.023	0.016	87.1	− 3 3197
2958	9.8	47 27.51	4	3.0667	0.0035	− 4 24 6.0	4	20.024	0.016	90.8	− 4 3158
2959	8	47 43.80	3	3.0684	0.0028	− 3 6 28.0	2	20.025	0.015	86.7	− 2 3433
2960	9.8	48 4.90	3	3.0678	0.0032	− 3 42 6.3	3	20.027	0.015	85.6	− 3 3200
2961	8.9	11 48 6.45	6	+ 3.0642	+ 0.0047	− 6 42 58.6	6	− 20.027	− 0.015	87.1	− 6 3475
2962	9	48 8.49	1	3.0657	0.0041	− 5 30 29.0	1	20.027	0.015	95.3	− 5 3380
2963	9	48 37.22	4	3.0662	0.0040	− 5 17 47.1	4	20.029	0.014	87.3	− 5 3382
2964	9	48 47.00	4	3.0655	0.0044	− 5 58 57.2	4	20.030	0.013	92.1	− 5 3384
2965	8.9	49 7 93	1	3.0693	0.0027	− 2 46 32.2	1	20.031	0.013	91.3	− 2 3438
2966	8.9	11 49 15.01	4	+ 3.0691	+ 0.0028	− 2 55 51.7	4	− 20.032	− 0.012	91.3	− 2 3439
2967	9.8	49 17.42	2	3.0663	0.0042	− 5 32 56 6	1	20.032	0.012	86.8; 78.4	− 5 3385
2968	8.7	49 18.21	8	3.0675	0.0036	− 4 27 59 5	8	29.032	0.012	86.8	− 4 3162
2969	8.9	50 29.29	3	3.0685	0.0034	− 3 56 22.9	3	20.036	0.010	85.6	− 3 3206
2970	9	50 33.08	3	3.0703	0.0025	− 2 6 36.0	3	20.037	0.010	90.7	− 1 2594
2971	8.7	11 50 53.08	5	+ 3.0685	+ 0.0035	− 4 6 55.3	5	− 20.038	− 0.009	86.3	− 3 3210
2972	9	51 41.51	1	3.0685	0.0038	− 4 30 4.6	1	20.041	0.008	89.3	− 4 3171
2973	8.7	51 59.32	4	3.0693	0.0034	− 3 42 17.0	4	20.042	0.007	84.8	− 3 3213
2974	9	52 4.44	1	3.0670	0.0050	− 6 34 35.2	1	20.042	0.007	92.3	− 6 3486
2975	9.8	52 16.88	2	3.0668	0.0051	− 6 57 37.3	2	20.042	0.006	88.3	− 6 3487
2976	8	11 52 52.69	5	+ 3.0680	+ 0.0046	− 5 59 9.4	5	− 20.044	− 0.005	87.5	− 5 3396
2977	9	52 53.90	1	3.0694	0.0036	− 4 6 11.3	1	20.044	0.005	93.3	− 3 3216
2978	8	53 5.92	8	3.0705	0.0029	− 2 39 15.4	7	20.045	0.005	88.0	− 2 3446
2979	9	53 33.98	1	3.0687	0.0044	− 5 33 59.2	1	20.046	0.004	95.3	− 5 3399
2980	8.9	53 46.69	5	3.0679	0.0052	− 6 58 24.3	3	20.046	0.004	86.9	− 6 3492
2981	9.8	11 54 6.30	4	+ 3.0680	+ 0.0053	− 7 8 56.6	4	− 20.047	− 0.003	86.0	− 7 3331
2982	8.9	54 19.59	1	3.0701	0.0036	− 3 52 39.5	1	20.048	0.002	94.3	− 3 3218
2983	9	54 29.82	3	3.0698	0.0039	− 4 27 8.9	3	20.048	− 0.002	88.0	− 4 3181
2984	9.8	54 33.27	1	3.0711	0.0028	− 2 15 51.9	1	30.048	− 0.002	91.2	− 2 3449
2985	9.8	55 0.26	2	3.0709	0.0031	− 2 54 13.4	2	20.049	− 0.001	91 3	− 2 3450
2986	9.8	11 56 46.41	4	+ 3.0699	+ 0.0046	− 5 36 52.7	4	− 20.050	0.000	89.1	− 5 3403
2987	9	56 10.53	9	3.0702	0.0044	− 5 10 11.3	9	20.051	+ 0.001	87.2	− 5 3405
2988	8.9	56 15.62	3	3.0698	0.0052	− 6 38 14.6	3	20.051	0·001	89.6	− 6 3497
2989	6.7	56 43.17	6	3.0700	0.0054	− 7 0 58.7	6	20.052	0.002	85.8	− 6 3499
2990	8	57 4.95	9	3.0715	0.0032	− 2 43 31.8	9	20.052	0.003	88.4	− 2 3453
2991	7	11 57 27.12	5	+ 3.0711	+ 0.0043	− 4 48 40.7	5	− 20.052	+ 0.004	88.5	− 4 3192
2992	9	57 50.13	3	3.0714	0.0039	− 4 5 42.5	3	20.053	0.004	91.6	− 3 3229
2993	9	58 6.89	3	3.0719	0.0029	− 2 9 46.9	3	20.053	0.005	91.6	− 2 3454
2994	8.9	58 36.30	12	3.0716	0.0045	− 5 6 20.4	8	20.053	0.006	87.7; 86.9	− 4 3199
2995	7	59 26.35	13	3.0720	0.0046	− 5 10 42.6	3	20.054	0.007	87.5	− 5 3416
2996	8	11 59 40.18	13	+ 3.0722	+ 0.0046	− 5 11 16.8	5	− 20.054	+ 0.008	87.8; 89.1	− 5 3419
2997	9.8	59 42.14	2	3.0722	0.0050	− 5 52 18.0	2	20.054	0.008	88.8	− 5 3420
2998	7	59 51.20	8	3.0723	0.0032	− 2 27 45.2	8	20.054	0.008	87.8	− 2 3460
2999	9.8	12 0 42.67	2	3.0728	0.0051	− 6 1 59.2	2	20.054	0.010	93.3	− 5 3422
3000	9.8	0 46.03	1	3.0726	0.0035	− 2 56 57.3	1	20.054	0.010	90.3	− 2 3463

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3001	9.8	12	0	49.53	2	+ 3.0727	+ 0.0042	− 4	23	53.1	2	− 20.054	+ 0.010	86.3	− 4	3207
3002	8.9		1	4.66	2	3.0729	0.0048	− 5	25	4.9	2	20.053	0.011	83.8	− 5	3423
3003	8		1	6.08	6	3.0730	0.0052	− 6	5	54.8	4	20.053	0.011	86.2; 82.6	− 5	3424
3004	9.8		1	9.49	2	3.0730	0.0048	− 5	24	22.1	1	20.053	0.011	89.3	− 5	3425
3005	9.8		1	40.09	4	3.0728	0.0033	− 2	27	41.8	4	20.053	0.012	83.8	− 2	3466
3006	9.8	12	1	45.40	1	+ 3.0731	+ 0.0043	− 4	19	9.0	1	− 20.053	+ 0.012	89.4	− 4	3211
3007	8		2	3.44	7	3.0731	0.0039	− 3	37	10.1	5	20.053	0.013	86.7; 85.9	− 3	3239
3008	8.9		2	19.03	7	3.0732	0.0040	− 3	40	12.2	3	20.053	0.013	84.6; 85.3	− 3	3240
3009	9		2	25.00	1	3.0736	0.0047	− 5	5	15.7	1	20.053	0.013	89.3	− 4	3214
3010	9.8		2	26.14	1	3.0739	0.0053	− 6	11	3.8	1	20.053	0.013	89.3	− 6	3509
3011	9.8	12	2	45.77	1	+ 3.0732	+ 0.0037	− 3	13	54.7	1	− 20.052	+ 0.014	94.2	− 3	3242
3012	8.9		2	50.66	2	3.0736	0.0044	− 4	28	47.8	2	20.052	0.014	91.3	− 4	3216
3013	8.7		3	38.88	6	3.0740	0.0046	− 4	33	30.7	5	20.051	0.016	91.4; 90.5	− 4	3219
3014	7.6		4	17.80	7	3.0755	0.0069	− 7	6	24.3	7	20.050	0.017	86.6	− 6	3518
3015	9		4	32.12	1	3.0742	0.0043	− 4	4	46.2	1	20.050	0.017	93.3	− 3	3246
3016	9.8	12	4	38.87	1	+ 3.0756	+ 0.0058	− 6	54	15.1	1	− 20.050	+ 0.018	92.3	− 6	3519
3017	9.8		4	43.95	5	30.735	0.0035	− 2	28	23.2	5	20.050	0.018	87.7	− 2	3474
3018	8.9		4	59.18	4	3.0753	0.0053	− 5	53	4.6	4	20.049	0.018	88.8	− 5	3442
3019	8.9		5	8.90	1	3.0762	0.0060	− 7	13	16.6	1	20.049	0.019	89.3	− 7	3360
3020	8.9		5	10.54	4	3.0751	0.0049	− 5	15	16.9	4	20.049	0.019	90.6	− 5	3444
3021	8	12	5	12.86	2	+ 3.0734	+ 0.0032	− 2	1	44.2	2	− 20.048	+ 0.019	83.8	− 1	2632
3022	8.7		5	13.46	4	3.0740	0.0038	− 3	6	31.4	3	20.048	0.019	87.1; 88.0	− 2	3478
3023	8.9		6	4.99	4	3.0747	0.0042	− 3	44	3.4	4	20.047	0.021	86.8	− 3	3249
3024	8		6	24.28	4	3.0739	0.0035	− 2	25	47.5	4	20.046	0.021	87.8	− 2	3481
3025	9.8		6	46.67	3	3.0766	0.0055	− 6	8	12.0	3	20.045	0.022	87.0	− 5	3451
3026	9	12	7	38.55	1	+ 3.0782	+ 0.0063	− 7	27	12.3	1	− 20.043	+ 0.024	89.3	− 7	3368
3027	7		8	6.66	3	3.0765	0.0050	− 5	3	11.5	3	20.041	0.024	86.0	− 4	3235
3028*)	8.9		8	58.72	2	3.0784	0.0069	− 6	35	18.6	2	20.038	0.026	85.8	− 6	3532
3029	9.8		9	12.25	1	3.0759	0.0044	− 3	45	26.6	1	20.038	0.026	89.3	− 3	3255
3030	8.9		9	24.07	4	3.0774	0.0052	− 5	16	5.0	4	20.037	0.027	88.3	− 5	3459
3031	8	12	9	42.82	5	+ 3.0778	+ 0.0053	− 5	29	30.4	5	− 20.036	+ 0.028	89.5	− 5	3463
3032	9.8		9	58.56	2	3.0747	0.0037	− 2	20	47.2	2	20.035	0.028	91.8	− 2	3487
3033	8.9		10	6.89	4	3.0762	0.0044	− 3	47	3.1	3	20.034	0.028	86.8; 86.0	− 3	3257
3034	8		10	7.30	3	3.0750	0.0038	− 2	33	59.4	3	20.034	0.028	85.7	− 2	3488
3035	8.9		10	11.86	2	3.0795	0.0061	− 6	51	52.2	2	20.034	0.029	85.8	− 6	3538
3036	8	12	10	12.53	5	+ 3.0777	+ 0.0052	− 5	10	42.1	3	− 20.034	+ 0.029	87.9; 89.3	− 5	3465
3037	9		11	33.06	1	3.0790	0.0055	− 5	37	54.4	1	20.028	0.031	89.3	− 5	3467
3038	9		11	33.60	1	3.0812	0.0065	− 7	30	53.6	1	20.028	0.031	89.3	− 7	3385
3039	8		11	44.22	6	3.0792	0.0056	− 5	45	47.2	6	20.028	0.032	87.7	− 5	3468
3040	7.8		11	59.84	5	3.0764	0.0043	− 3	17	19.1	3	20.026	0.032	88.5; 91.0	− 3	3262
3041	7	12	12	0.28	5	+ 3.0764	+ 0.0048	− 3	16	55.8	2	− 20.026	+ 0.032	88.5; 84.8	− 3	3263
3042	9		12	1.94	1	3.0752	0.0038	− 2	21	54.3	1	20.026	0.032	95.3	− 2	3493
3043	9.8		12	14.26	1	3.0778	0.0049	− 4	21	39.2	1	20.025	0.032	89.4	− 4	3247
3044	8.9		12	25.37	4	3.0753	0.0038	− 2	21	20.5	3	20.024	0.033	87.6; 85.0	− 2	3494
3045	8.9		13	4.52	3	3.0759	0.0040	− 2	39	4.7	3	20.021	0.034	89.0	− 2	3497
3046	9.8	12	13	15.39	3	+ 3.0792	+ 0.0053	− 5	5	5.4	3	− 20.020	+ 0.035	88.6	− 4	3250
3047	9.8		13	27.83	3	3.0795	0.0054	− 5	11	1.5	3	20.019	0.035	92.0	− 5	3475
3048	9.8		13	54.14	4	3.0830	0.0066	− 7	27	33.5	4	20.017	0.036	87.3	− 7	3388
3049	9.8		13	57.25	1	3.0815	0.0061	− 6	24	39.1	1	20.017	0.036	89.3	− 6	3547
3050	8.7		14	7.21	5	3.0779	0.0047	− 3	50	37.3	4	20.016	0.036	87.9; 86.8	− 3	3267

*) Dupl. sq.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3051	9.8	12	14	16.30	1	+ 3.0825	+ 0.0064	— 6	56	46.9	1	— 20.015	+ 0.036	89.4	— 6	3548
3052	8.9		14	30.52	2	3.0773	0.0045	— 3	19	35.9	2	20.014	0.037	87.8	— 3	3268
3053	9		15	32.67	1	3.0839	0.0066	— 7	14	59.5	1	20.008	0.039	89.3	— 7	3395
3054	9.8		15	34.12	1	3.0811	0.0057	— 5	30	6.0	1	20.008	0.039	95.3	— 5	3483
3055	8		15	41.35	6	3.0783	0.0047	— 3	43	10.3	5	20.007	0.039	88.2; 89.9	— 3	3271
3056	9	12	16	6.12	1	+ 3.0829	+ 0.0062	— 6	23	57.8	1	— 20.004	+ 0.040	89.3	— 6	3555
3057	8.9		16	46.09	7	3.0811	0.0055	— 5	6	54.2	7	20.000	0.041	87.9	— 4	3265
3058	8.9		16	51.50	1	3.0808	0.0054	— 4	55	10.2	1	20.000	0.042	89.3	— 4	3266
3059	8		16	59.26	4	3.0838	0.0064	— 6	38	2.3	4	19.999	0.042	87.3	— 6	3557
3060	9		17	1.14	2	3.0797	0.0051	— 4	14	43.6	1	19.999	0.042	89.4	— 4	3267
3061	6.7	12	17	5.22	4	+ 3.0798	+ 0.0051	— 4	18	29.5	3	— 19.998	+ 0.042	90.1	— 4	3268
3062	9		17	13.78	1	3.0836	0.0062	— 6	22	59.4	1	19.997	0.042	89.3	— 6	3559
3063	8.7		17	17.53	5	3.0820	0.0057	— 5	27	18.9	5	19.997	0.042	86.1	— 5	3487
3064	8.9		17	26.61	4	3.0777	0.0044	— 3	0	46.6	4	19.996	0.043	87.8	— 2	3510
3065	9.8		17	31.98	1	3.0796	0.0050	— 4	3	15.6	1	19.995	0.043	96.3	— 3	3277
3066	9.8	12	18	29.67	1	+ 3.0792	+ 0.0048	— 3	38	9.4	1	— 19.989	+ 0.045	90.3	— 3	3279
3067	8.9		18	35.27	5	3.0818	0.0056	— 4	58	57.6	5	19.988	0.045	87.5	— 4	3273
3068	8		18	50.15	3	3.0792	0.0048	— 3	33	16.2	3	19.986	0.045	87.6	— 3	3280
3069	9		18	59.16	2	3.0857	0.0066	— 6	53	19.6	1	19.985	0.046	89.3	— 6	3564
3070	9		19	11.61	1	3.0812	0.0054	— 4	32	47.3	1	19.984	0.046	89.4	— 4	3275
3071	9.8	12	19	25.58	5	+ 3.0861	+ 0.0067	— 6	56	51.5	4	— 19.982	+ 0.047	90.7	— 6	3565
3072	9		19	32.57	1	3.0772	0.0043	— 2	26	42.9	1	19.981	0.047	88.3	— 2	3517
3073	8.9		19	40.02	4	3.0808	0.0052	— 4	11	46.2	4	19.980	0.047	90.6	— 4	3276
3074	8		19	58.22	4	3.0801	0.0050	— 3	48	58.5	4	19.978	0.048	88.3	— 3	3289
3075	8.9		20	8.21	6	3.0860	0.0066	— 6	39	56.9	6	19.976	0.048	87.8	— 6	3570
3076	9	12	20	17.89	2	+ 3.0835	+ 0.0059	— 5	22	34.0	2	— 19.975	+ 0.048	90.3	— 5	3497
3077	8.7		20	37.28	5	3.0827	0.0056	— 4	55	38.7	5	19.973	0.049	87.5	— 4	3281
3078	9.8		20	38.09	1	3.0872	0.0068	— 7	3	29.1	1	19.973	0.049	89.3	— 6	3571
3079	9.8		20	47.96	4	3.0838	0.0059	— 5	23	52.6	4	19.971	0.049	84.3	— 5	3500
3080	8.9		20	50.25	3	3.0784	0.0046	— 2	52	1.3	3	19.971	0.049	91.7	— 2	3519
3081	9.8	12	20	58.21	2	+ 3.0849	+ 0.0062	— 5	51	49.4	2	— 19.970	+ 0.050	89.3	— 5	3503
3082	8.9		21	0.74	7	3.0780	0.0044	— 2	37	22.6	5	19.970	0.050	85.5	— 2	3520
3083	9.8		21	10.32	1	3.0779	0.0044	— 2	34	25.3	1	19.968	0.050	89.3	— 2	3523
3084	9		21	30.79	1	3.0875	0.0068	— 6	54	59.6	1	19.966	0.051	92.3	— 6	3574
3085	7		21	42.16	4	3.0811	0.0052	— 3	57	4.5	4	19.964	0.051	84.8	— 3	3298
3086	8	12	21	48.96	5	+ 3.0877	+ 0.0068	— 6	54	11.6	4	— 19.963	+ 0.051	86.5; 85.1	— 6	3577
3087	9.8		22	16.65	3	3.0771	0.0042	— 2	5	45.2	3	19.959	0.052	83.4	— 1	2671
3088	9		22	22.08	1	3.0836	0.0058	— 4	56	22.8	1	19.958	0.052	89.3	— 4	3288
3089	8.9		22	34.54	5	3.0807	0.0051	— 3	37	33.5	5	19.957	0.053	86.5	— 3	3302
3090	8.9		22	40.94	1	3.0859	0.0063	— 5	52	0.7	1	19.956	0.053	89 3	— 5	3506
3091	9.8	12	23	35.45	3	+ 3.0787	+ 0.0046	— 2	39	11.1	3	— 19.948	+ 0.055	91.0	— 2	3528
3092	8.7		23	52.12	10	3.0854	0.0061	— 5	21	27.5	6	19.945	0.055	87.1	— 5	3513
3093	9		23	54.52	2	3.0878	0.0066	— 6	19	37.7	2	19.945	0.055	87.3	— 6	3583
3094	9.8		24	13.28	7	3.0856	0.0061	— 5	21	58.6	4	19.942	0.056	85.9; 87.1	— 5	3516
3095	7.8		24	40.76	4	3.0809	0.0051	— 3	23	51.7	3	19.938	0.057	85.3	— 3	3309
3096	9.8	12	24	57.57	1	+ 3.0842	+ 0.0057	— 4	39	24.5	1	— 19.935	+ 0.058	89.3	— 4	3294
3097	9		25	5.71	2	3.0903	0.0070	— 7	0	1.0	2	19.934	0.058	89.3	— 6	3287
3098	9.8		25	15.68	1	3.0917	0.0073	— 7	29	46.7	1	19.932	0.058	78.4	— 7	3420
3099	7		25	28.57	10	3.0837	0.0056	— 4	28	25.4	10	19.930	0.058	88.8	— 4	3296
3100	9.8		25	31.82	5	3.0803	0.0049	— 3	3	2.2	4	19.930	0.059	86.7; 88.1	— 2	3531

№	Gr.	*A. R.* 1880.0			Zahl der Beob.	Praec.	Var. saec.	*Decl.* 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
3101	9.8	12	25	46.39	3	+ 3.0858	+ 0.0060	— 5	7	36.7	3	— 19.927	+ 0.059	81.7	— 4	3297
3102	9.8		26	3.89	3	3.0816	0.0052	— 3	29	40.2	3	19.924	0.060	85.0	— 3	3310
3103	9.8		26	52.43	1	3.0860	0.0060	— 4	59	56.5	1	19.916	0.061	89.3	— 4	3299
3104	9		27	1.07	3	3.0905	0.0069	— 6	36	11.6	3	19.915	0.062	84.7	— 6	3589
3105	9.8		27	38.08	6	3.0852	0.0058	— 4	34	48.6	6	19.908	0.063	90.0	— 4	3301
3106	8.9	12	27	45.06	7	+ 3.0896	+ 0.0067	— 6	7	2.2	7	— 19.907	+ 0.063	87.6	— 5	3526
3107	9.8		27	51.70	1	3.0869	0.0062	— 5	8	9.2	1	19.906	0.063	95.3	— 4	3303
3108	8.9		28	0.70	3	3.0831	0.0054	— 3	47	2.1	3	19.904	0.063	89.3	— 3	3313
3109	8.9		28	3.17	4	3.0811	0.0051	— 3	3	27.0	3	19.904	0.063	85.1; 86.4	— 2	3533
3110	8.9		28	43.04	10	3.0855	0.0059	— 4	29	36.0	9	19.897	0.065	88.1; 89.2	— 4	3307
3111	9.8	12	29	11.26	4	+ 3.0824	+ 0.0053	— 3	24	18.5	4	— 19.891	+ 0.066	90.8	— 3	3315
3112	8.9		29	17.65	4	3.0809	0.0050	— 2	53	4.3	4	19.890	0.066	87.1	— 2	3540
3113	8.9		29	33.58	7	3.0928	0.0071	— 6	47	9.0	7	19.887	0.066	85.2	— 6	3598
3114	9.8		29	33.79	6	3.0794	0.0048	— 2	21	18.9	6	19.887	0.066	84.8	— 2	3542
3115	8.9		30	22.82	7	3.0891	0.0064	— 5	24	19.5	4	19.878	0.068	84.9	— 5	3534
3116	6.7	12	30	36.60	4	+ 3.0884	+ 0.0063	— 5	10	12.8	4	— 19.875	+ 0.068	85.1	— 5	3535
3117	9.8		30	36.60	5	3.0893	0.0065	— 5	25	48.2	3	19.875	0.068	83.5; 85.7	— 5	3536
3118	9		30	36.99	2	3.0945	0.0074	— 7	5	10.7	2	19.875	0.069	8[illegible].3	— 6	3604
3119	9		30	58.84	2	3.0849	0.0057	— 3	59	24.0	2	19.871	0.069	89.4	— 3	3322
3120	9		31	22.41	3	3.0816	0.0052	— 2	54	33.7	3	19.866	0.070	86.4	— 2	3546
3121	9	12	31	55.10	2	+ 3.0916	+ 0.0068	— 5	55	57.4	2	— 19.860	+ 0.071	89.3	— 5	3538
3122	9		32	8.82	2	3.0877	0.0062	— 4	41	50.0	2	19.857	0.071	89.3	— 4	3317
3123*)	9.8		32	30.86	8	3.0878	0.0062	— 4	39	51.9	6	19.852	0.072	90.0	— 4	3319
3124	7.8		32	33.22	5	3.0846	0.0057	— 3	42	47.6	5	19.852	0.072	85.5	— 3	3329
3125	9.8		32	52.40	3	3.0967	0.0076	— 7	15	26.1	2	19.848	0.073	89.0; 88.9	— 7	3451
3126	6.5	12	33	3.22	6	+ 3.0971	+ 0.0076	— 7	20	6.8	2	— 19.846	+ 0.073	87.0; 81.4	— 7	3452
3127	9.8		33	10.99	4	3.0973	0.0076	— 7	22	8.2	2	19.844	0.074	87.3; 90.8	— 7	3454
3128	7.8		33	19.16	5	3.0908	0.0066	— 5	26	26.9	5	19.842	0.074	87.1	— 5	3542
3129	8.9		33	43.91	5	3.0806	0.0050	— 2	24	22.4	5	19.837	0.074	84.0	— 2	3552
3130	8.9		33	57.62	4	3.0907	0.0066	— 5	19	27.6	4	19.834	0.075	82.6	— 5	3543
3131	9	12	34	21.84	2	+ 3.0798	+ 0.0049	— 2	8	23.7	1	— 19.829	+ 0.076	87.8	— 1	2705
3132	9		34	45.48	1	3.0954	0.0073	— 6	31	17.5	1	19.824	0.077	89.3	— 6	3622
3133	9.8		35	11.60	6	3.0964	0.0074	— 6	43	29.0	5	19.818	0.078	85.5; 84.0	— 6	3624
3134	8.9		35	15.19	8	3.0843	0.0056	— 3	20	3.0	7	19.817	0.077	86.2	— 3	3337
3135	9.8		35	40.26	8	3.0799	0.0050	— 2	5	36.6	6	19.811	0.078	87.4; 86.5	— 1	2710
3136	7	12	35	45.40	8	+ 3.0973	+ 0.0075	— 6	50	24.9	4	— 19.810	+ 0.079	86.4	— 6	3625
3137	9.8		35	47.63	1	3.0792	0.0049	— 1	53	37.8	1	19.810	0.078	93.4	— 1	2713
3138	8.9		35	48.67	11	3.0889	0.0063	— 4	33	42.5	11	19.810	0.079	89.7	— 4	3331
3139	8.9		36	3.94	1	3.0905	0.0065	— 4	56	44.9	1	19.806	0.079	91.4	— 4	3333
3140	8.9		36	25.07	4	3.0901	0.0064	— 4	48	31.1	4	19.801	0.080	89.3	— 4	3335
3141	9	12	36	45.98	2	+ 3.0884	+ 0.0062	— 4	18	16.3	2	— 19.796	+ 0.080	89.4	— 4	3339
3142	8		36	50.43	8	3.0850	0.0057	— 3	23	6.3	6	19.795	0.080	86.8	— 3	3341
3143	9.8		37	2.22	1	3.0810	0.0052	— 2	18	17.5	1	19.792	0.081	90.3	— 2	3563
3144	9		37	12.73	2	3.0801	0.0050	— 2	3	17.3	1	19.790	0.081	91.8	— 1	2719
3145	9.8		37	13.84	4	3.0807	0.0051	— 2	13	1.0	3	19.790	0.081	85.1	— 2	3564
3146	9	12	37	23.67	3	+ 3.0899	+ 0.0064	— 4	36	53.8	3	— 19.787	+ 0.082	92.7	— 4	3342
3147	9		37	49.95	1	3.0978	0.0075	— 6	36	42.3	1	19.781	0.083	89.3	— 6	3636
3148	9.8		37	59.56	2	3.0890	0.0063	— 4	19	7.9	2	19.779	0.083	92.8	— 4	3344
3149	7.8		38	1.65	8	3.0808	0.0052	— 2	11	6.7	5	19.778	0.083	87.0; 88.2	— 2	3567
3150	9.8		38	1.70	3	3.1002	0.0078	— 7	12	2.3	3	19.778	0.083	89.3	— 7	3476

*) Dupl. pr.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
3151	9	12	38	30.33	1	+ 3.0804	+ 0.0051	− 2	3	4.9	1	− 19.771	+ 0.084	85.3	− 1	2721
3152	9.8		38	33.06	2	3.0940	0.0069	− 5	30	48.4	2	19.771	0.084	87.3	− 5	3561
3153	9.8		39	6.75	2	3.0851	0.0058	− 3	13	39.8	2	19.762	0.085	89.3	− 3	3348
3154	8		39	7.04	8	3.0852	0.0058	− 3	13	52.1	7	19.762	0.085	85.5; 84.3	− 3	3349
3155	8.9		39	14.71	4	3.0901	0.0064	− 4	28	10.2	4	19.760	0.085	85.1	− 4	3350
3156	8.7	12	39	21.05	7	+ 3.0889	+ 0.0063	− 4	9	16.7	7	− 19.759	+ 0.085	87.5	− 4	3351
3157	9		40	25.47	1	3.0892	0.0063	− 4	7	9.4	1	19.743	0.088	89.4	− 3	3357
3158	8		40	46.78	6	3.1020	0.0079	− 7	8	32.3	6	19.737	0.089	85.7	− 6	3644
3159	9.8		41	20.49	1	3.0943	0.0069	− 5	14	6.5	1	19.728	0.089	89.3	− 5	3568
3160	7.8		41	21.34	9	3.0960	0.0072	− 5	38	40.2	8	19.728	0.089	87.6; 88.7	− 5	3569
3161	8	12	41	23.20	11	+ 3.0892	+ 0.0063	− 4	1	30.6	11	− 19.728	+ 0.089	87.9	− 3	3360
3162	9.8		42	57.56	11	3.0932	0.0068	− 4	47	20.0	11	19.703	0.093	90.2	− 4	3359
3163	9		43	2.95	1	3.0949	0.0070	− 5	10	7.4	1	19.701	0.093	89.8	− 5	3577
3164	9		43	25.01	1	3.0920	0.0066	− 4	28	24.4	1	19.695	0.093	89.4	− 4	3360
3165	8		43	30.34	5	3.0999	0.0076	− 6	13	32.6	5	19.694	0.094	86.9	− 6	3656
3166	8.9	12	43	48.64	3	+ 3.1015	+ 0.0078	− 6	32	19.6	3	− 19.688	+ 0.094	85.6	− 6	3658
3167	7		43	54.01	9	3.1035	0.0080	− 6	58	42.1	5	19 687	0.095	86.8; 85.4	− 6	3659
3168	9.8		44	28.74	1	3.0986	0.0074	− 5	48	28.4	1	19.677	0.096	89.3	− 5	3581
3169	8.9		44	29.56	6	3.1039	0.0080	− 6	58	50.2	4	19.677	0.096	87.0; 88.6	− 6	3662
3170	8.9		44	33.62	1	3.0861	0.0059	− 3	3	11.8	1	19.676	0.096	92.4	− 2	3587
3171	8.9	12	44	43.14	4	+ 3.0969	+ 0.0072	− 5	24	26.1	2	− 19.673	+ 0.096	86.3; 80.3	− 5	3582
3172	9		45	5.15	5	3.0907	0.0065	− 4	1	41.2	5	19.667	0.097	88.6	− 3	3367
3173	9		45	8.04	1	3.0826	0.0056	− 2	14	45.1	1	19.666	0.096	92.4	− 2	3589
3174	9		45	21.92	1	3.0985	0.0074	− 5	41	16.2	1	19.662	0.097	89.3	− 5	3584
3175	8.9		45	28.10	10	3.0976	0.0073	− 5	28	48.8	5	19.660	0.098	88.3; 89.9	− 5	3585
3176	9	12	45	38.98	1	+ 3.0962	+ 0.0071	− 5	9	36.7	1	− 19.657	+ 0.098	89.3	− 5	3586
3177	9		45	44.86	1	3.0928	0.0067	− 4	24	1.4	1	19.656	0.098	89.4	− 4	3366
3178	8.9		46	0.49	11	3.0977	0.0073	− 5	26	10.5	5	19.651	0.099	87.1; 88.5	− 5	3588
3179	9.8		46	8.53	8	3.0944	0.0069	− 4	43	45.7	8	19.649	0.099	89.4	− 4	3368
3180	9.8		46	44.85	4	3.1031	0.0079	− 6	28	21.9	4	19.638	0.100	88.6	− 6	3674
3181	6.7	12	47	2.39	8	+ 3.0861	+ 0.0060	− 2	54	3.3	8	− 19.633	+ 0.100	86.1	− 2	3593
3182	8.9		47	23.40	2	3.1070	0.0083	− 7	11	13.4	2	19.627	0.101	83.4	− 7	3503
3183	7		47	26.87	6	3.0895	0.0064	− 3	34	15.8	5	19.626	0.101	84.7	− 3	3373
3184	8.9		48	13.42	7	3.1064	0.0082	− 6	57	30.5	4	19.612	0.103	86.3; 84.4	− 6	3681
3185	9		48	33.27	4	3.1067	0.0082	− 6	57	51.6	3	19.605	0.104	86.3; 88.6	− 6	3685
3186	9	12	49	6.12	1	+ 3.0870	+ 0.0061	− 2	57	23.3	1	− 19.595	+ 0.104	93.4	− 2	3596
3187	8		49	11.86	9	3.0915	0.0066	− 3	51	19.8	9	19.594	0.104	84.1	− 3	3375
3188	8		49	31.00	5	3.0869	0.0061	− 2	54	0.4	4	19.588	0.105	87.6; 86.1	− 2	3597
3189	8.7		50	3.77	3	3.0937	0.0068	− 4	12	49.4	3	19.577	0.106	82.7	− 4	3379
3190	9		50	10.70	1	3.0965	0.0071	− 4	45	26.1	1	19.575	0.106	89.3	− 4	3380
3191	9	12	50	18.50	1	+ 3.1013	+ 0.0076	− 5	40	35.0	1	− 19.573	+ 0.107	89.3	− 5	3600
3192	9		51	25.23	3	3.0833	0.0058	− 2	6	40.9	2	19.551	0.108	84.0; 83.3	− 1	2745
3193	9		51	27.21	1	3.1023	0.0077	− 5	44	30.4	1	19.551	0.109	89.3	− 5	3603
3194	9.8		51	41.83	2	3.1063	0.0081	− 6	29	28.8	2	19.546	0.110	83.8	− 6	3701
3195	9.8		52	14.08	5	3.1009	0.0076	− 5	23	54.0	4	19.535	0.111	84.1; 85.6	− 5	3604
3196	8	12	52	22.88	2	+ 3.1058	+ 0.0081	− 6	17	57.2	2	− 19.532	+ 0.111	85.3	− 6	3705
3197	7.8		52	29.28	5	3.0843	0.0059	− 2	15	14.8	5	19.530	0.111	86.9	− 2	3605
3198	8.9		52	43.28	2	3.0898	0.0065	− 3	17	0.8	2	19.526	0.111	84.8	− 3	3383
3199	8		52	47.56	7	3.1014	0.0076	− 5	26	31.4	3	19.524	0.112	84.0; 82.0	− 5	3605
3200	8.9		53	11.86	5	3.0952	0.0070	− 4	15	28.6	5	19.516	0.112	82.6	− 4	3390

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
3201	6	12 53 28.52	2	+ 3.0894	+ 0.0064	− 3 9 51.7	1	− 19.510	+ 0.113	83.3; 81.4	− 3 3384
3202	9.8	53 33.80	6	3.0928	0.0068	− 3 46 55.0	6	19.509	0.113	83.2	− 3 3385
3203	7	54 25.22	2	3.0873	0.0068	− 2 43 21.7	2	19.491	0.114	81.4	− 2 3609
3204	8.9	54 28.26	1	3.0829	0.0058	− 1 54 56.5	1	19.490	0.114	85.3	− 1 2755
3205	9	56 34.91	1	3.1060	0.0080	− 5 52 31.6	1	19.446	0.119	89.3	− 5 3616
3206	9	12 56 46.14	2	+ 3.1017	+ 0.0076	− 5 7 19.2	2	− 19.442	+ 0.119	89.3	− 4 3405
3207	9.8	56 50.15	1	3.1143	0.0088	− 7 16 49.8	1	19.440	0.120	78.4	− 7 3531
3208	9.8	56 54.14	1	3.0932	0.0069	− 3 38 30.5	1	19.439	0.119	78.3	− 3 3398
3209	8.9	57 6.68	4	3.0857	0.0062	− 2 19 8.4	4	19.434	0.119	84.3	− 2 3620
3210	8	57 9.61	5	3.1058	0.0080	− 5 47 13.0	4	19.433	0.120	85.5; 84.6	− 5 3619
3211	9	12 57 23.54	1	+ 3.0914	+ 0.0067	− 3 18 6.8	1	− 19.428	+ 0.120	85.3	− 3 3400
3212	8	57 38.92	3	3.0986	0.0074	− 4 30 34.8	3	19.423	0.121	80.7	− 4 3408
3213	7	57 43.52	3	3.0899	0.0066	− 3 1 1.7	3	19.421	0.121	81.7	− 2 3622
3214	9.8	59 6.88	1	3.1172	0.0090	− 7 30 12.2	1	19.390	0.124	89.3	− 7 3542
3215	8.9	59 12.80	3	3.1057	0.0080	− 5 34 45.8	3	19.388	0.124	83.0	− 5 3625
3216	8.9	12 59 17.18	6	+ 3.0838	+ 0.0061	− 1 54 51.3	6	− 19.387	+ 0.124	86.0	− 1 2768
3217	9.8	59 18.68	3	3.0937	0.0069	− 3 34 12.0	2	19.386	0.124	85.7; 89.3	− 3 3405
3218	8.9	59 35.96	4	3.1146	0.0088	− 7 0 55.4	4	19.380	0.125	85.1	− 6 3732
3219	8	59 51.95	3	3.0994	0.0076	− 4 29 26.4	3	19.374	0.125	80.7	− 4 3418
3220	8.9	13 0 2.36	9	3.0945	0.0070	− 3 39 53.7	5	19.370	0.125	85.6	− 3 3406
3221	9	13 0 10.07	1	+ 3.0853	+ 0.0062	− 2 7 55.8	1	− 19.367	+ 0.125	88.3	− 1 2770
3222	8.9	0 13.77	6	3.0979	0.0073	− 4 12 8.4	6	19.365	0.126	85.2	− 4 3419
3223	8	0 17.33	8	3.0948	0.0071	− 3 41 52.3	3	19.364	0.126	85.1; 83.4	− 3 3407
3224	9.8	0 35.66	1	3.1131	0.0086	− 6 39 2.2	1	19.357	0.127	78.4	− 6 3735
3225	9	0 43.60	2	3.1178	0.0091	− 7 23 39.0	2	19.354	0.127	89.3	− 7 3551
3226	8	13 0 58.25	3	+ 3.1058	+ 0.0080	− 5 26 21.9	3	− 19.348	+ 0.127	84.3	− 5 3634
3227	9.8	1 47.54	1	3.1075	0.0082	− 5 38 12.4	1	19.329	0.129	89.3	− 5 3636
3228	9	2 5.46	1	3.0978	0.0073	− 4 4 0.3	1	19.322	0.129	89.4	− 3 3412
3229	8	2 13.27	2	3.1143	0.0087	− 6 40 13.1	2	19.319	0.130	81.8	− 6 3742
3230	8.9	2 14.51	3	3.0858	0.0064	− 2 9 16.4	2	19.319	0.129	87.7	− 2 3634
3231	8	13 2 19.36	4	+ 3.0851	+ 0.0063	− 2 2 19.2	4	− 19.317	+ 0.129	85.3	− 1 2777
3232	9.8	2 27.15	2	3.0983	0.0074	− 4 7 51.6	1	19.314	0.130	89.4	− 4 3425
3233	8.9	2 36.05	3	3.1062	0.0080	− 5 21 15.9	3	19.310	0.130	83.0	− 5 3640
3234	8.9	3 21.67	2	3.1181	0.0090	− 7 8 27.3	2	19.292	0.132	81.4	− 7 3558
3235	8	3 31.98	3	3.1174	0.0090	− 7 0 54.3	3	19.288	0.133	85.0	− 6 3750
3236	8.9	13 3 32.03	4	+ 3.0899	+ 0.0067	− 2 44 49.0	4	− 19.288	+ 0.132	81.4	− 2 3638
3237	5	3 44.13	2	3.1038	0.0079	− 4 53 54.0	2	19.283	0.133	80.3	− 4 3430
3238	8	4 30.39	7	3.1003	0.0075	− 4 18 8.3	7	19.265	0.134	85.5	− 4 3432
3239	8.9	4 47.13	4	3.0860	0.0064	− 2 5 25.3	4	19.258	0.134	80.4	− 1 2781
3240	8.9	5 5.90	3	3.0938	0.0071	− 3 16 36.3	3	19.250	0.135	84.7	− 3 3421
3241	9	13 5 30.62	1	+ 3.1147	+ 0.0087	− 6 24 40.1	1	− 19.240	+ 0.136	85.3	− 6 3760
3242	9.8	6 36.89	2	3.0942	0.0072	− 3 15 28.1	2	19.213	0.138	86.4	− 3 3426
3243	8.9	6 59.09	7	3.1019	0.0077	− 4 23 2.4	7	19.203	0.139	85.8	− 4 3439
3244	7.8	7 4.04	5	3.0853	0.0065	− 1 55 4.7	5	19.201	0.138	87.3	− 1 2786
3245	8	7 10.00	6	3.0916	0.0069	− 2 51 25.8	6	19.199	0.139	84.0	− 2 3651
3246	8.9	13 7 28.24	2	+ 3.0977	+ 0.0074	− 3 44 21.7	2	− 19.191	+ 0.139	87.9	− 3 3428
3247	9	7 33.35	2	3.1151	0.0087	− 6 17 3.8	2	19.189	0.140	86.9	− 6 3769
3248	8	7 53.80	2	3.0871	0.0066	− 2 10 13.5	2	19.180	0.140	81.4	− 2 3658
3249	9.8	9 22.04	5	3.1072	0.0081	− 4 59 56.5	3	19.142	0.143	88.2	− 4 3450
3250	9	9 32.86	2	3.1007	0.0076	− 4 4 2.2	2	19.138	0.143	89.4	− 3 3433

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
3251	9	13 9 46.68	5	+3.1222	+0.0092	−7 5 7.4	5	−19.132	+0.145	87.5	−6 3773
3252	8	9 50.23	11	3.1077	0.0082	−5 1 58.0	5	19.130	0.144	89.0	−4 3452
3253	9.8	9 50.90	3	3.0953	0.0073	−3 16 18.0	2	19.130	0.144	88.3; 85.3	−3 3435
3254	9.8	10 3.94	4	3.0951	0.0073	−3 13 56.8	2	19.124	0.144	90.3; 95.3	−3 3437
3255	8	10 26.73	11	3.1073	0.0082	−4 56 18.7	4	19.114	0.145	87.8; 86.9	−4 3453
3256	8.9	13 10 35.21	3	+3.1171	+0.0089	−6 18 3.9	3	−19.110	+0.146	89.4	−6 3776
3257	9	10 47.44	2	3.1014	0.0077	−4 5 22.6	2	19.105	0.146	89.4	−3 3443
3258	9	11 39.42	1	3.1075	0.0082	−4 53 22.8	1	19.082	0.148	93.4	−4 3455
3259	9	11 51.14	1	3.0869	0.0067	−2 1 0.1	1	19.076	0.147	87.4	−1 2795
3260	8	12 4.19	1	3.1097	0.0083	−5 9 19.9	1	19.070	0.148	84.4	−5 3668
3261	8.9	13 12 19.30	4	+3.1133	+0.0086	−5 38 1.4	4	−19.064	+0.149	88.1	−5 3669
3262	9	12 44.45	3	3.0862	0.0067	−1 53 56.1	3	19.052	0.149	90.3	−1 2798
3263	8	13 30.81	3	3.1160	0.0088	−5 54 38.7	3	19.031	0.151	84.7	−5 3673
3264	9	14 19.43	6	3.1235	0.0093	−6 51 7.4	6	19.008	0.153	89.5	−6 3788
3265	9	14 30.72	3	3.0940	0.0073	−2 54 11.0	3	19.003	0.152	88.4	−2 3671
3266	8.9	13 14 46.89	8	+3.1101	+0.0084	−5 2 7.4	8	−18.996	+0.154	88.0	−4 3464
3267	9.8	15 17.72	3	3.0985	0.0076	−3 28 21.8	3	18.981	0.154	92.7	−3 3452
3268	8	15 58.55	6	3.1030	0.0079	−4 2 1.9	5	18.962	0.155	88.0	−3 3458
3269	9	16 5.95	1	3.1252	0.0094	−6 54 44.0	1	18.958	0.157	89.3	−6 3796
3270	9	16 16.10	2	3.0865	0.0068	−1 51 9.4	2	18.954	0.155	88.3	−1 2807
3271	7.8	13 16 17.12	6	+3.1149	+0.0087	−5 34 10.4	6	−18.953	+0.157	88.2	−5 3678
3272	9	16 26.61	1	3.0873	0.0069	−1 57 43.2	1	18.949	0.156	87.4	−1 2808
3273	8.9	16 57.57	1	3.1120	0.0085	−5 8 22.2	1	18.934	0.158	93.4	−5 3680
3274	6.7	17 5.82	5	3.1055	0.0081	−4 17 45.9	4	18.930	0.158	86.4; 85.4	−4 3469
3275	8.9	17 15.13	8	3.0983	0.0076	−3 21 57.4	7	18.925	0.158	89.8	−3 3458
3276	8.9	13 17 42.73	8	+3.1075	+0.0083	−4 31 20.6	4	−18.912	+0.159	90.8; 93.1	−4 3470
3277	8	17 54.54	4	3.1028	0.0079	−3 54 33.6	3	18.906	0.159	88.4	−3 3459
3278	9	17 54.57	2	3.1002	0.0078	−3 34 37.2	2	18.906	0.159	87.9	−3 3460
3279	9.8	18 12.92	2	3.1035	0.0080	−3 59 19.7	1	18.897	0.160	89.4	−3 3461
3280	8.7	18 14.02	4	3.1011	0.0078	−3 40 42.2	3	18.897	0.160	88.3; 87.0	−3 3462
3281	9.8	13 18 17.16	4	+3.1160	+0.0088	−5 33 44.3	4	−18.895	+0.160	87.4	−5 3684
3282	6.7	18 18.42	8	3.1079	0.0083	−4 32 12.0	3	18.895	0.160	91.6; 90.4	−4 3472
3283	8	18 25.91	2	3.1060	0.0082	−4 17 26.1	2	18.891	0.160	84.8	−4 3473
3284	8	18 33.26	3	3.1213	0.0092	−6 12 50.1	3	18.887	0.161	86.7	−6 3807
3285	8.9	18 33.78	6	3.1087	0.0083	−4 37 50.1	3	18.887	0.160	89.0; 84.3	−4 3474
3286	9	13 18 48.90	1	+3.1240	+0.0093	−6 31 57.4	1	−18.880	+0.162	95.4	−6 3810
3287	9.8	19 4.94	9	3.1275	0.0096	−6 57 24.7	9	18.872	0.162	88.0	−6 3811
3288	7.8	19 56.53	5	3.0966	0.0076	−3 2 11.0	5	18.846	0.163	85.3	−2 3684
3289	8.9	20 31.51	5	3.1181	0.0090	−5 40 39.5	5	18.829	0.165	86.4	−5 3693
3290	8	20 39.20	5	3.1152	0.0088	−5 18 24.6	5	18.825	0.165	86.6	−5 3694
3291	9	13 21 25.52	2	+3.1089	+0.0084	−4 29 34.2	2	−18.801	+0.166	89.4	−4 3485
3292	8	21 26.26	4	3.1228	0.0093	−6 11 36.6	4	18.801	0.166	87.1	−6 3819
3293	9	21 33.42	2	3.1077	0.0083	−4 20 39.1	2	18.797	0.166	89.4	−4 3487
3294	9	21 47.63	1	3.1135	0.0087	−5 2 24.4	1	18.790	0.167	95.3	−4 3490
3295	8.9	22 29.17	7	3.1040	0.0081	−3 50 36.3	7	18.769	0.168	87.9	−3 3476
3296	8.7	13 22 48.51	4	+3.1165	+0.0089	−5 20 1.8	4	−18.759	+0.169	88.6	−5 3702
3297	9	23 29.90	3	3.1080	0.0084	−4 17 7.8	3	18.738	0.170	84.0	−4 3494
3298	9	23 35.20	1	3.1306	0.0097	−6 57 57.5	1	18.735	0.171	89.3	−6 3825
3299	9	23 50.42	2	3.1025	0.0080	−3 36 47.0	2	18.727	0.170	92.4	−3 3482
3300	9	24 6.88	4	3.1320	0.0098	−7 4 56.8	3	18.718	0.172	88.1	−6 3827

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec. s	Var. saec. s	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec. "	Var. saec. "	Ep. 1800 +	B. D. °	
3301	7	13	24	10.22	4	+3.1215	+0.0092	−5	51	5.0	4	−18.716	+0.171	86.8	−5	3706
3302	7		24	39.82	3	3.0928	0.0075	−2	25	52.3	3	18.701	0.171	81.7	−2	3695
3303	9.8		24	48.12	5	3.0968	0.0077	−2	53	28.9	4	18.697	0.171	88.6; 87.1	−2	3697
3304	9.8		24	50.16	3	3.0909	0.0074	−2	11	48.8	3	18.696	0.171	90.0	−2	3698
3305	8.9		25	12.84	4	3.1011	0.0080	−3	23	15.0	4	18.684	0.172	87.6	−3	3489
3306	9	13	25	34.24	2	+3.1069	+0.0083	−4	2	57.1	2	−18.672	+0.173	89.4	−3	3490
3307	8		25	37.36	5	3.1184	0.0090	−5	23	43.0	5	18.670	0.174	87.4	−5	3713
3308	9		25	40.86	3	3.1320	0.0098	−6	58	5.4	3	18.669	0.175	89.7	−6	3832
3309	6		25	43.59	2	3.1205	0.0091	−5	38	8.7	2	18.667	0.174	84.9	−5	3714
3310	9.8		25	45.71	4	3.1164	0.0089	−5	8	51.7	4	18.666	0.174	87.6	−5	3715
3311	8.9	13	26	4.04	4	+3.1310	+0.0098	−6	49	11.0	4	−18.656	+0.176	87.6	−6	3834
3312	9.8		26	4.16	3	3.0976	0.0078	−2	56	52.9	3	18.656	0.174	87.0	−2	3703
3313	8.9		26	25.78	4	3.0894	0.0073	−1	58	49.9	4	18.645	0.174	85.4	−1	2833
3314	9.8		26	44.01	1	3.1293	0.0097	−6	34	37.4	1	18.635	0.177	89.3	−6	3837
3315	7.8		27	8.42	4	3.1333	0.0099	−7	0	18.5	4	18.622	0.178	85.9	−6	3839
3316	8.9	13	27	15.71	5	+3.1162	+0.0089	−5	2	40.8	4	−18.618	+0.177	86.2; 88.1	−4	3506
3317	9		27	19.80	3	3.0924	0.0075	−2	18	26.4	2	18.615	0.176	89.0; 89.9	−2	3706
3318	9.8		27	49.97	4	3.0921	0.0075	−2	15	43.2	2	18.599	0.177	90.4	−2	3708
3319	9		28	0.94	2	3.1104	0.0086	−4	20	26.0	2	18.593	0.178	89.4	−4	3508
3320	8.9		28	10.88	5	3.1052	0.0083	−3	45	3.4	5	18.588	0.178	86.5	−3	3497
3321	9	13	28	20.71	2	+3.1076	+0.0084	−4	0	21.5	2	−18.582	+0.178	89.4	−3	3498
3322	8		28	48.31	4	3.1286	0.0096	−6	21	9.7	4	18.567	0.180	86.1	−6	3843
3323	9.8		29	2.33	7	3.0896	0.0074	−1	57	28.4	6	18.559	0.179	86.5; 88.0	−1	2838
3324	8.9		29	10.90	5	3.1106	0.0086	−4	19	7.1	5	18.555	0.180	85.4	−4	3514
3325	6.7		29	16.78	7	3.1148	0.0088	−4	47	2.4	7	18.551	0.181	87.8	−4	3515
3326	8	13	29	28.15	6	+3.1217	+0.0092	−5	32	30.9	6	−18.545	+0.181	88.0	−5	3730
3327	9.8		29	37.12	2	3.0911	0.0075	−2	6	23.7	2	18.540	0.180	81.4	−1	2840
3328	9.8		30	7.28	3	3.0931	0.0076	−2	19	31.1	3	18.523	0.181	89.7	−2	3711
3329	9		30	55.23	1	3.1143	0.0088	−4	38	22.9	1	18.496	0.183	89.4	−4	3519
3330	9.8		30	57.14	2	3.1314	0.0098	−6	31	25.1	1	18.495	0.184	92.4	−6	3850
3331	8.9	13	31	0.46	7	+3.1201	+0.0091	−5	16	41.8	7	−18.493	+0.184	86.6	−5	3735
3332	8.9		31	8.86	5	3.1103	0.0086	−4	11	27.1	5	18.489	0.183	87.3	−4	3521
3333	8.9		31	22.93	3	3.1272	0.0096	−6	2	25.1	3	18.481	0.185	86.7	−5	3737
3334	8.7		31	34.77	2	3.0962	0.0078	−2	37	22.8	2	18.474	0.184	85.4	−2	3714
3335	9		32	16.06	7	3.1366	0.0101	−6	59	29.2	7	18.450	0.187	89.3	−6	3855
3336	9.8	13	32	17.12	2	+3.0902	+0.0075	−1	57	30.1	2	−18.450	+0.185	89.4	−1	2846
3337	8		32	18.49	4	3.1007	0.0081	−3	5	41.5	4	18.449	0.185	85.1	−2	3716
3338	8		32	43.28	8	3.0900	0.0075	−1	55	17.8	6	18.435	0.185	86.8; 86.0	−1	2847
3339	9.8		33	0.30	5	3.1192	0.0091	−5	4	49.9	5	18.425	0.188	88.4	−4	3527
3340	8		34	10.95	8	3.1157	0.0089	−4	38	15.0	8	18.384	0.192	90.0	−4	3533
3341	8.9	13	35	30.61	10	+3.1383	+0.0102	−6	56	54.2	10	−18.337	+0.193	86.3	−6	3868
3342	9.8		35	30.99	4	3.1047	0.0084	−3	25	13.8	4	18.337	0.191	87.6	−3	3515
3343	9		35	36.84	9	3.1095	0.0086	−3	55	40.4	9	18.334	0.192	88.1	−3	3516
3344	8.9		35	45.73	6	3.1328	0.0099	−6	21	44.3	6	18.328	0.193	88.7	−6	3870
3345	9		36	30.37	1	3.1170	0.0090	−4	40	36.6	1	18.302	0.194	89.4	−4	3536
3346	9	13	36	40.75	2	+3.1366	+0.0101	−6	41	52.8	2	−18.296	+0.195	88.9	−6	3873
3347	8		36	43.49	7	3.0902	0.0077	−1	51	47.2	7	18.294	0.192	85.6	−1	2851
3348	8		37	17.12	4	3.1076	0.0086	−3	40	9.3	4	18.274	0.194	84.6	−3	3522
3349	8		37	18.17	2	3.1382	0.0102	−6	49	18.0	2	18.273	0.196	82.9	−6	3875
3350	9.8		37	25.08	1	3.1378	0.0101	−6	46	26.7	1	18.269	0.197	89.3	−6	3876

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3351	8.9	18	37	27.01	9	+ 3.1005	+ 0.0082	− 2	55	8.4	8	− 18.268	+ 0.194	87.7	− 2	3723
3352	9.8		37	28.10	2	3.1262	0.0095	− 5	34	55.0	2	18.267	0.196	91.8	− 5	3755
3353	7.8		37	39.62	11	3.1196	0.0092	− 4	58	38.3	11	18.260	0.196	88.0	− 4	3540
3354	9		37	44.29	3	3.1418	0.0103	− 7	9	40.8	3	18.258	0.197	87.4	− 7	3684
3355	9		38	26.69	3	3.1132	0.0089	− 4	11	43.7	3	18.232	0.197	89.7	− 4	3543
3356	9.8	18	38	30.52	2	+ 3.1266	+ 0.0095	− 5	33	35.4	1	− 18.230	+ 0.198	87.8; 84.4	− 5	3756
3357	8.9		38	32.47	6	3.1009	0.0082	− 2	55	44.9	3	18.228	0.196	87.5; 85.7	− 2	3726
3358	8		38	39.47	6	3.1412	0.0103	− 7	1	53.1	5	18.224	0.199	87.0	− 6	3878
3359	8.7		38	41.70	7	3.1251	0.0095	− 5	23	59.1	7	18.223	0.198	88.2	− 5	3758
3360	8		38	58.36	4	3.0988	0.0081	− 2	42	42.4	4	18.213	0.197	82.4	− 2	3727
3361	9	18	39	20.45	5	+ 3.0960	+ 0.0080	− 2	24	46.2	5	− 18.199	+ 0.197	87.8	− 2	3728
3362	9		39	36.71	1	3.1434	0.0104	− 7	11	27.5	1	18.189	0.201	88.4	− 7	3694
3363	8.9		40	4.76	8	3.1146	0.0089	− 4	16	29.7	8	18.172	0.200	87.1	− 4	3555
3364	9.8		40	38.13	8	3.1205	0.0093	− 4	50	39.6	8	18.151	0.201	88.6	− 4	3557
3365	8.7		41	7.84	6	3.0907	0.0078	− 1	50	36.3	6	18.133	0.200	85.4	− 1	2858
3366	7	18	41	9.18	10	+ 3.1334	+ 0.0099	− 6	6	18.4	9	− 18.132	+ 0.208	86.9	− 5	3762
3367	9		41	41.44	5	3.1225	0.0094	− 4	59	52.8	5	18.112	0.203	87.2	− 4	3560
3368	9		41	43.42	2	3.0980	0.0082	− 2	33	41.0	2	18.111	0.202	86.9	− 2	3732
3369	9		41	54.55	2	3.1393	0.0102	− 6	38	19.9	2	18.104	0.205	89.3	− 6	3886
3370	7		42	1.39	1	3.1353	0.0100	− 6	14	18.6	1	18.099	0.205	84.4	− 6	3887
3371	9.8	18	42	11.48	3	+ 3.1137	+ 0.0089	− 4	6	19.1	3	− 18.093	+ 0.204	89.7	− 3	3535
3372	9.8		42	16.56	6	3.1211	0.0093	− 4	50	2.2	6	18.090	0.204	88.2	− 4	3562
3373	7.8		42	26.79	4	3.0950	0.0080	− 2	14	29.9	3	18.083	0.203	85.4	− 2	3737
3374	8.9		42	27.08	8	3.1022	0.0084	− 2	57	22.4	8	18.083	0.203	87.8	− 2	3738
3375	9.8		42	35.80	3	3.0984	0.0082	− 2	34	48.7	1	18.078	0.203	86.7	− 2	3739
3376	9.8	18	42	40.61	1	+ 3.1085	+ 0.0087	− 3	34	32.3	1	− 18.075	+ 0.204	94.3	− 3	3536
3377	8.9		43	1.55	5	3.1235	0.0094	− 5	1	57.7	4	18.061	0.206	88.2	− 4	3563
3378	9.8		43	22.07	5	3.0973	0.0082	− 2	27	8.2	5	18.048	0.205	88.6	− 2	3742
3379	9		43	24.86	2	3.1448	0.0105	− 7	5	31.4	2	18.047	0.208	89.4	− 6	3890
3380	9		43	44.11	2	3.1460	0.0105	− 7	10	50.3	2	18.034	0.208	88.4	− 7	3710
3381	7.8	18	44	14.49	2	+ 3.1445	+ 0.0105	− 7	0	5.2	1	− 18.015	+ 0.209	85.4; 81.4	− 6	3892
3382	8.9		44	19.84	7	3.1401	0.0102	− 6	34	28.5	6	18.012	0.209	89.2; 90.0	− 6	3893
3383	7.8		44	32.41	5	3.1466	0.0106	− 7	11	17.2	3	18.003	0.210	86.4; 84.7	− 7	3712
3384	8.9		44	53.83	4	3.0949	0.0081	− 2	12	11.0	4	17.990	0.207	86.4	− 2	3747
3385	9		45	6.46	3	3.1262	0.0096	− 5	11	57.2	3	17.982	0.210	90.7	− 5	3766
3386	9	18	45	8.24	2	+ 3.1165	+ 0.0091	− 4	16	4.0	2	− 17.980	+ 0.209	89.4	− 4	3573
3387	9		45	17.75	4	3.1157	0.0091	− 4	11	1.1	3	17.974	0.209	89.6	− 4	3574
3388	8		45	26.95	6	3.1408	0.0103	− 6	34	43.6	3	17.968	0.211	88.4; 86.7	− 6	3897
3389	9.8		46	2.62	1	3.1485	0.0106	− 7	16	25.9	1	17.945	0.213	91.3	− 7	3716
3390	9.8		46	19.41	1	3.1280	0.0097	− 5	19	10.9	1	17.934	0.212	78.3	− 5	3771
3391	9	18	46	20.10	2	+ 3.1192	+ 0.0092	− 4	28	35.0	2	− 17.934	+ 0.211	90.4	− 4	3580
3392	9		46	22.70	2	3.1423	0.0103	− 6	39	44.4	2	17.932	0.213	89.3	− 6	3901
3393	9.8		46	37.47	2	3.1343	0.0100	− 5	53	47.2	2	17.922	0.213	88.9	− 5	3774
3394	8.9		46	41.17	3	3.1475	0.0106	− 7	8	15.3	3	17.920	0.214	86.0	− 7	3719
3395	8.7		46	59.13	7	3.1033	0.0085	− 2	56	57.2	7	17.908	0.211	85.7	− 2	3752
3396	8	18	47	21.31	3	+ 3.1315	+ 0.0098	− 5	35	37.2	3	− 17.894	+ 0.214	88.4	− 5	3774
3397	8.9		47	54.34	8	3.1273	0.0096	− 5	10	55.6	6	17.872	0.215	87.0; 87.7	− 5	3776
3398	8		48	8.58	11	3.0979	0.0083	− 2	24	42.6	11	17.862	0.213	86.9	− 2	3758
3399	8.9		48	28.41	12	3.1135	0.0090	− 3	52	0.7	9	17.849	0.215	87.1	− 3	3574
3400	8		48	40.49	8	3.1288	0.0097	− 5	17	10.8	6	17.841	0.216	86.4; 85.2	− 5	3777

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
3401	9	18	49	8.26	1	+ 3.1510	+ 0.0107	− 7	18	35.6	1	− 17.823	+ 0.218	91.3	− 7	3731
3402	8.9		49	10.85	8	3.1129	0.0090	− 3	47	0.5	3	17.821	0.216	90.0; 90.7	− 3	3549
3403	9		49	25.57	2	3.1158	0.0091	− 4	2	40.8	2	17.811	0.216	89.4	− 3	3551
3404	7		49	47.20	5	3.1054	0.0087	− 3	4	21.4	5	17.797	0.216	83.6	− 2	3761
3405	9.8		49	52.00	6	3.1158	0.0091	− 4	1	44.5	4	17.793	0.217	85.0; 82.9	− 3	3552
3406	9	18	49	53.08	1	+ 3.1361	+ 0.0101	− 5	54	20.9	1	− 17.793	+ 0.219	89.3	− 5	3779
3407	9		49	53.37	1	3.1449	0.0105	− 6	42	56.9	1	17.792	0.219	95.4	− 6	3904
3408	8.9		50	5.82	2	3.1354	0.0100	− 5	49	30.0	1	17.784	0.219	88.9	− 5	3780
3409	9		50	17.52	3	3.1320	0.0099	− 5	30	36.4	3	17.776	0.219	88.4	− 5	3782
3410	9		50	26.39	1	3.1453	0.0105	− 6	42	53.6	1	17.770	0.220	89.3	− 6	3907
3411	9	18	50	30.56	3	+ 3.1186	+ 0.0093	− 4	15	48.0	3	− 17.767	+ 0.218	90.7	− 4	3592
3412	9		50	33.58	4	3.1009	0.0085	− 2	38	0.8	4	17.765	0.217	88.6	− 2	3763
3413	8.9		51	23.82	8	3.1258	0.0096	− 4	53	44.2	8	17.731	0.221	89.4	− 4	3594
3414	8.9		51	44.13	6	3.1140	0.0091	− 3	48	1.9	6	17.717	0.220	87.7	− 3	3560
3415	9		52	1.36	3	3.1512	0.0107	− 7	9	27.6	3	17.706	0.223	89.0	− 7	3741
3416	9.8	18	52	6.01	6	+ 3.1415	+ 0.0103	− 6	17	5.0	4	− 17.702	+ 0.223	85.2	− 6	3910
3417	9		52	38.64	1	3.0980	0.0084	− 2	19	55.8	1	17.680	0.221	92.4	− 2	3766
3418	7		52	42.03	6	3.1425	0.0103	− 6	20	21.4	2	17.678	0.224	85.2	− 6	3911
3419	9		53	0.05	3	3.1509	0.0107	− 7	4	35.8	3	17.665	0.225	89.0	− 6	3912
3420	8		53	11.33	4	3.1259	0.0096	− 4	50	1.6	4	17.657	0.224	89.4	− 4	3597
3421	9	18	53	12.43	6	+ 3.1197	+ 0.0093	− 4	16	9.4	6	− 17.657	+ 0.223	89.9	− 4	3598
3422	7		53	36.26	7	3.1053	0.0087	− 2	57	53.2	7	17.640	0.223	87.8	− 2	3768
3423	9		54	11.02	1	3.1474	0.0106	− 6	42	3.1	1	17.616	0.227	89.3	− 6	3916
3424	9		54	14.80	1	3.1373	0.0101	− 5	48	24.7	1	17.613	0.226	89.3	− 5	3794
3425	9.8		54	35.29	4	3.1242	0.0095	− 4	37	42.8	4	17.599	0.226	89.4	− 4	3600
3426	8.9	18	54	35.41	5	+ 3.1209	+ 0.0094	− 4	20	9.7	3	− 17.599	+ 0.226	86.8; 87.6	− 4	3601
3427	8.9		54	36.00	2	3.1415	0.0103	− 6	9	43.2	2	17.598	0.227	84.8	− 6	3917
3428	9.8		54	47.38	4	3.1459	0.0105	− 6	32	2.9	4	17.590	0.228	86.4	− 6	3918
3429	8.9		54	48.72	2	3.1386	0.0102	− 5	53	22.8	1	17.590	0.227	88.9	− 5	3795
3430	8.9		55	27.47	8	3.1298	0.0098	− 5	5	10.5	8	17.562	0.228	88.7	− 4	3604
3431	9	18	56	12.37	5	+ 3.1213	+ 0.0094	− 4	19	1.3	5	− 17.531	+ 0.229	90.0	− 4	3607
3432	9.8		56	23.40	10	3.1011	0.0086	− 2	32	9.2	10	17.523	0.228	87.5	− 2	3772
3433	8.9		56	41.37	4	3.1400	0.0102	− 5	55	53.2	4	17.510	0.231	87.4	− 5	3798
3434	8.9		56	46.34	12	3.1221	0.0095	− 4	21	57.8	6	17.506	0.230	89.5	− 4	3609
3435	8		56	59.16	3	3.1474	0.0106	− 6	33	37.8	3	17.497	0.232	83.4	− 6	3921
3436	9	18	57	38.60	2	+ 3.1222	+ 0.0095	− 4	20	29.8	1	− 17.469	0.231	89.4	− 4	3613
3437	9		57	38.65	1	3.1544	0.0109	− 7	7	23.9	1	17.469	+ 0.233	89.3	− 7	3761
3438	9.8		57	44.55	4	3.1062	0.0088	− 2	56	51.0	4	17.465	0.230	85.4	− 2	3777
3439	8.9		57	46.01	3	3.1503	0.0107	− 6	45	58.7	3	17.464	0.233	87.4	− 6	3924
3440	8.9		57	47.37	4	3.1115	0.0090	− 3	24	26.5	4	17.463	0.231	83.6	− 3	3572
3441	9.8	18	57	49.76	1	+ 3.1439	+ 0.0104	− 6	12	38.3	1	− 17.461	+ 0.233	93.4	− 6	3925
3442	9.8		57	55.67	3	3.1402	0.0103	− 5	58	26.1	3	17.457	0.233	89.7	− 5	3799
3443	7.6		57	58.67	10	3.1276	0.0097	− 4	48	15.0	10	17.455	0.232	87.7	− 4	3614
3444	9		58	13.87	1	3.1009	0.0086	− 2	28	41.1	1	17.444	0.230	87.4	− 2	3779
3445	8		58	31.45	5	3.1415	0.0103	− 5	58	31.2	2	17.431	0.234	89.0; 87.9	− 5	3803
3446	8	18	58	40.20	3	+ 3.1454	+ 0.0105	− 6	17	59.3	3	− 17.425	+ 0.234	81.7	− 6	3929
3447	8		58	54.22	4	3.1502	0.0107	− 6	42	1.1	3	17.415	0.235	87.1; 88.0	− 6	3930
3448	9		59	48.75	4	3.1543	0.0108	− 7	0	5.6	4	17.375	0.237	89.1	− 6	3933
3449	8.9	14	0	9.77	5	3.1143	0.0092	− 3	35	22.9	5	17.360	0.235	84.8	− 3	3580
3450	8		0	27.97	6	3.1304	0.0098	− 4	56	32.7	6	17.347	0.236	87.2	− 4	3616

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec. s	Var. saec. s	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec. "	Var. saec. "	Ep. 1800 +	B. D. °	
3451	8.9	14	0	36.07	11	+ 3.1241	+ 0.0096	— 4	24	25.5	11	— 17.341	+ 0.236	88.7	— 4	3618
3452	9		0	50.85	1	3.1393	0.0102	— 5	40	55.4	1	17.330	0.238	93.4	—	—
3453	9		0	57.00	2	3.1555	0.0109	— 7	2	26.8	1	17.325	0.239	88.4	— 6	3936
3454	8		1	48.19	3	3.1218	0.0095	— 4	10	27.0	3	17.288	0.238	83.4	— 4	3623
3455	9		2	7.23	2	3.1197	0.0094	— 3	59	31.6	2	17.274	0.238	89.4	— 3	3583
3456	9	14	2	8.33	1	+ 3.1349	+ 0.0100	— 5	15	30.9	1	— 17.273	+ 0.240	85.3	— 5	3812
3457	9.8		2	9.26	3	3.1075	0.0089	— 2	57	41.8	2	17.272	0.238	86.7	— 2	3789
3458	9		2	11.30	3	3.1004	0.0087	— 2	21	52.9	3	17.270	0.237	87.7	— 2	3790
3459	9		2	12.69	1	3.1427	0.0103	— 5	54	40.1	1	17.270	0.240	89.3	— 5	3813
3460	9		2	40.54	4	3.1084	0.0090	— 3	1	36.8	2	17.249	0.239	86.9	— 2	3793
3461	9.8	14	3	9.36	4	+ 3.1022	+ 0.0087	— 2	29	38.9	4	— 17.227	+ 0.239	90.4	— 2	3797
3462	9		3	23.69	1	3.1596	0.0110	— 7	15	1.7	1	17.217	0.244	89.3	— 7	3779
3463	9		3	31.12	1	3.1060	0.0089	— 2	48	37.1	1	17.211	0.240	91.4	— 2	3798
3464	9.8		3	35.62	7	3.1258	0.0097	— 4	27	19.7	7	17.208	0.242	90.9	— 4	3628
3465	9		3	47.30	1	3.1544	0.0108	— 6	48	23.7	1	17.199	0.244	83.4	— 6	3945
3466	8	14	4	10.79	4	+ 3.1447	+ 0.0104	— 5	59	31.6	4	— 17.181	+ 0.244	87.6	— 5	3823
3467	8		4	15.05	8	3.1314	0.0099	— 4	53	23.3	8	17.178	0.243	88.0	— 4	3633
3468	8.7		4	40.17	9	3.1378	0.0102	— 5	24	25.0	4	17.159	0.244	85.0; 83.1	— 5	3824
3469	7.8		4	46.32	7	3.0978	0.0086	— 2	6	29.0	7	17.155	0.241	84.8	— 1	2916
3470	9		5	5.14	1	3.1594	0.0110	— 7	9	0.4	1	17.140	0.246	89.4	— 7	3788
3471*)	8.9	14	5	6.56	6	+ 3.1059	+ 0.0089	— 2	45	57.0	5	— 17.139	+ 0.242	85.9	— 2	3800
3472	7.8		5	24.84	6	3.1368	0.0101	— 5	17	29.8	4	17.125	0.245	88.0; 87.1	— 5	3825
3473	8.9		5	32.85	3	3.1004	0.0087	— 2	18	39.1	3	17.119	0.243	85.7	— 2	3801
3474	7		5	34.87	1	3.1402	0.0102	— 5	33	46.6	1	17.118	0.246	93.4	— 5	3826
3475	8.9		5	44.60	7	3.1371	0.0101	— 5	18	28.8	2	17.110	0.246	87.6; 89.9	— 5	3827
3476	9	14	6	9.33	1	+ 3.1286	+ 0.0098	— 4	35	48.7	1	— 17.092	+ 0.246	89.4	— 4	3640
3477	9.8		6	18.25	1	3.1175	0.0094	— 3	41	33.2	1	17.085	0.245	87.4	— 3	3591
3478	7.8		6	18.57	9	3.1018	0.0088	— 2	24	24.8	6	17.084	0.244	86.4	— 2	3802
3479	7.8		6	33.07	4	3.1060	0.0089	— 2	44	46.8	4	17.073	0.245	85.1	— 2	3804
3480	9		6	33.23	3	3.1107	0.0091	— 3	8	5.1	3	17.073	0.245	88.7	— 3	3592
3481	9	14	7	35.95	1	+ 3.1026	+ 0.0088	— 2	26	56.1	1	— 17.025	+ 0.246	94.4	— 2	3806
3482	9		7	38.44	1	3.1186	0.0094	— 3	44	28.1	1	17.023	0.248	86.4	— 3	3595
3483	9.8		7	41.65	1	3.1380	0.0102	— 5	18	28.1	1	17.021	0.249	92.4	— 5	3835
3484	8		7	57.67	6	3.1530	0.0107	— 6	29	38.8	6	17.008	0.251	86.5	— 6	3952
3485	7.8		8	6.21	5	3.1392	0.0102	— 5	23	18.8	4	17.002	0.250	86.2; 84.6	— 5	3837
3486	9.8	14	8	14.55	5	+ 3.1272	+ 0.0098	— 4	25	19.7	5	— 16.995	+ 0.249	90.8	— 4	3644
3487	8		8	20.46	6	3.1316	0.0099	— 4	45	59.0	6	16.991	0.250	88.7	— 4	3645
3488	8		8	21.78	2	3.1046	0.0089	— 2	36	5.3	2	16.990	0.248	85.4	— 2	3809
3489	9.8		8	43.07	3	3.1105	0.0091	— 3	3	53.5	2	16.973	0.249	88.8	— 2	3810
3490	9.8		9	3.13	1	3.1083	0.0091	— 2	53	12.2	1	16.958	0.249	87.4	— 2	3811
3491	8	14	9	22.00	2	+ 3.1615	+ 0.0111	— 7	6	15.7	2	— 16.943	+ 0.254	86.4	— 6	3955
3492	8.7		10	2.08	2	3.1336	0.0100	— 4	52	35.0	2	16.912	0.253	95.3	— 4	3652
3493	7.6		10	3.08	3	3.1487	0.0106	— 6	3	49.4	2	16.911	0.254	86.4; 88.4	— 5	3845
3494	9.8		10	6.58	5	3.1191	0.0095	— 3	43	25.1	4	19.908	0.252	85.2	— 3	3601
3495	8		10	16.56	2	3.1595	0.0110	— 6	54	35.0	2	16.900	0.255	83.9	— 6	3960
3496	7.6	14	10	17.01	9	+ 3.1055	+ 0.0090	— 2	38	15.6	9	— 16.900	+ 0.251	88.8	— 2	3812
3497	9		10	29.14	4	3.1273	0.0098	— 4	21	43.0	2	16.890	0.253	89.4	— 4	3655
3498	9.8		10	31.70	1	3.1017	0.0088	— 2	19	56.7	1	16.888	0.251	91.4	— 2	3813
3499	8		10	47.87	7	3.1200	0.0095	— 3	46	15.0	2	16.876	0.253	84.4; 80.4	— 3	3603
3500	9.8		10	49.75	5	3.1304	0.0099	— 4	35	33.3	2	16.874	0.254	87.0; 85.4	— 4	3657

*) Dupl. pr

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3501	9.8	14	10	50.22	4	+ 3.1263	+ 0.0097	— 4	16	16.0	2	— 16.874	+ 0.254	89.4	— 4	3658
3502	8.9		11	5.48	5	3.1193	0.0095	— 3	42	37.1	2	16.862	0.254	86.0	— 3	3606
3503	9.8		11	35.09	7	3.1305	0.0099	— 4	34	40.1	3	16.838	0.255	89.2	— 4	3660
3504	7.6		11	38.56	4	3.1612	0.0110	— 6	58	41.4	4	16.836	0.258	87.9	— 6	3[illegible]64
3505	8		11	39.52	4	3.1412	0.0103	— 5	24	58.4	4	16.835	0.256	86.6	— 5	3852
3506	9.8	14	11	41.20	5	+ 3.1306	+ 0.0099	— 4	35	16.6	2	— 16.833	+ 0.255	88.6; 93.4	— 4	3661
3507	8		12	22.05	3	3.1550	0.0108	— 6	27	29.7	3	16.801	0.258	85.4	— 6	3965
3508	8		13	28.15	4	3.1314	0.0099	— 4	35	38.5	4	16.752	0.258	87.4	— 4	3665
3509	7		13	34.87	5	3.1522	0.0107	— 6	11	34.7	5	16.743	0.260	87.0	— 6	3972
3510	9		13	53.20	1	3.1280	0.0098	— 4	18	51.6	1	16.728	0.259	89.4	— 4	3666
3511	9.8	14	14	53.46	6	+ 3.0976	+ 0.0088	— 1	56	50.5	6	— 16.679	+ 0.258	86.2	— 1	2940
3512	8		15	2.85	6	3.1330	0.0100	— 4	39	52.4	6	16.672	0.261	88.2	— 4	3670
3513	9		15	3.36	2	3.1257	0.0097	— 4	6	29.0	2	16.671	0.260	89.4	— 3	3613
3514	9		15	4.14	2	3.1346	0.0100	— 4	47	12.0	2	16.671	0.261	95.3	— 4	3671
3515	9		15	29.48	1	3.1534	0.0107	— 6	12	21.3	1	16.650	0.264	88.4	— 6	3981
3516	9	14	16	17.45	1	+ 3.1139	+ 0.0093	— 3	10	44.9	1	— 16.611	+ 0.262	92.4	— 3	3617
3517*)	8		16	17.78	3	3.1672	0.0112	— 7	12	56.7	3	16.611	0.266	85.4	— 7	3834
3518	9		16	24.43	5	3.1068	0.0091	— 2	38	5.1	5	16.605	0.261	90.4	— 2	3835
3519	9.8		16	42.79	4	3.1232	0.0097	— 3	52	27.7	4	16.590	0.263	89.2	— 3	3619
3520	8.9		16	52.00	6	3.1472	0.0105	— 5	41	6.9	5	16.583	0.265	87.1; 88.6	— 5	3868
3521	9.8	14	17	47.86	1	+ 3.1589	+ 0.0109	— 6	31	42.4	1	— 16.537	+ 0.268	88.4	— 6	3[illegible]90
3522	9.8		17	55.63	2	3.1168	0.0094	— 3	21	36.6	2	16.530	0.264	87.4	— 3	3620
3523	8.9		18	26.03	5	3.1605	0.0110	— 6	37	30.5	5	16.505	0.269	86.4	— 6	3993
3524	8.9		19	43.61	8	3.1148	0.0094	— 3	10	15.6	8	16.441	0.267	87.1	— 3	3625
3525	9.8		19	45.98	9	3.1329	0.0100	— 4	31	18.8	9	16.439	0.269	89.7	— 4	3685
3526	8.9	14	19	51.02	6	+ 3.1247	+ 0.0097	— 3	54	43.3	6	— 16.435	+ 0.268	86.4	— 3	3626
3527	8.9		20	14.93	1	3.1388	0.0102	— 4	56	56.4	1	16.415	0.270	96.4	— 4	3687
3528	8.9		20	32.51	9	3.1347	0.0101	— 4	37	56.9	7	16.400	0.270	87.6	— 4	3690
3529	9.8		20	36.25	1	3.1175	0.0095	— 3	21	35.9	1	16.397	0.269	87.4	— 3	3628
3530	6.7		21	6.42	5	3.1478	0.0105	— 5	34	42.6	5	16.371	0.272	85.8	— 5	3880
3531	9	14	21	34.59	2	+ 3.1067	+ 0.0091	— 2	32	26.8	2	— 16.348	+ 0.269	92.9	— 2	3848
3532	8		21	51.50	12	3.1057	0.0091	— 2	27	55.9	11	16.333	0.270	8[illegible].1	— 2	3849
3533	7		22	22.04	4	3.1591	0.0109	— 6	21	38.3	4	16.308	0.275	87.1	— 6	4009
3534	7.8		22	31.25	9	3.1361	0.0101	— 4	40	57.2	9	16.300	0.273	85.6	— 4	3695
3535	8.9		22	53.14	4	3.1324	0.0100	— 4	23	53.6	4	16.281	0.274	88.1	— 4	3696
3536	8.9	14	23	23.86	2	+ 3.1470	+ 0.0105	— 5	26	51.7	2	— 16.255	+ 0.276	88.4	— 5	3892
3537	9		23	42.59	4	3.1202	0.0096	— 3	29	29.4	3	16.239	0.274	89.6; 88.7	— 3	3633
3538	7.8		23	45.34	6	3.1232	0.0097	— 3	42	40.6	6	16.236	0.274	86.4	— 3	3634
3539	9.8		23	46.19	2	3.1160	0.0095	— 3	11	3.0	2	16.236	0.274	89.9	— 3	3635
3540	8.9		23	47.97	6	3.1622	0.0110	— 6	32	7.2	6	16.234	0.278	88.9	— 6	4012
3541	7.8	14	24	15.66	7	+ 3.1209	+ 0.0096	— 3	31	50.1	4	— 16.210	+ 0.275	87.1; 85.9	— 3	3636
3542	8		24	28.81	13	3.1078	0.0092	— 2	34	31.1	13	16.199	0.274	87.5	— 2	3855
3543	9		24	38.86	1	3.1173	0.0095	— 3	15	50.8	1	16.190	0.275	87.4	— 3	3637
3544	8		24	44.12	5	3.1451	0.0104	— 5	16	7.6	5	16.186	0.278	86.4	— 5	3896
3545	9		25	35.56	2	3.1310	0.0099	— 4	13	49.8	2	16.142	0.278	89.4	— 4	3701
3546	8.9	14	25	58.68	3	+ 3.1701	+ 0.0112	— 7	0	24.8	3	— 16.122	+ 0.282	82.4	— 6	4021
3547	8.9		26	28.68	1	3.1658	0.0111	— 6	40	56.2	1	16.095	0.282	90.4	— 6	4023
3548	9		26	50.22	2	3.1416	0.0103	— 4	56	58.2	2	16.077	0.281	94.4	— 4	3704
3549	8		27	0.94	5	3.1622	0.0109	— 6	24	25.2	2	16.067	0.283	88.4	— 6	4025
3550	9.8		27	9.25	4	3.1175	0.0095	— 3	13	52.5	4	16.060	0.279	84.9	— 3	3641

*) Dupl. pr.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3551	8	14	27	20.89	5	+ 3.1614	+ 0.0109	− 6	20	28.5	3	− 16.050	+ 0.283	88.4	− 6	4026
3552	9		27	33.19	1	3.1364	0.0101	− 4	33	44.1	1	16.039	0.282	93.4	− 4	3709
3553	9.8		27	34.18	3	3.1019	0.0090	− 2	6	42.8	3	16.038	0.279	88.4	− 2	3860
3554	9		27	44.74	2	3.1368	0.0101	− 4	35	27.3	2	16.029	0.282	86.9	− 4	3710
3555	9		27	55.89	5	3.1072	0.0092	− 2	29	3.0	5	16.019	0.280	87.4	− 2	3861
3556	9.8	14	28	19.64	11	+ 3.1095	+ 0.0093	− 2	38	30.5	11	− 15.998	+ 0.280	87.8	− 2	3862
3557	8.9		28	32.78	6	3.1306	0.0099	− 4	7	27.8	6	15.987	0.282	85.4	− 4	3713
3558	9		28	52.63	1	3.1695	0.0112	− 6	51	13.6	1	15.969	0.286	88.4	− 6	4031
3559	8		29	8.78	9	3.1476	0.0104	− 5	18	23.2	9	15.955	0.285	86.2	− 5	3909
3560	8		29	26.52	4	3.1396	0.0102	− 4	44	28.4	4	15.939	0.286	84.9	− 4	3715
3561	9	14	29	40.64	1	+ 3.1256	+ 0.0098	− 3	45	0.3	1	− 15.927	+ 0.284	92.4	− 3	3643
3562	8.9		29	55.69	8	3.1186	0.0096	− 3	15	22.4	6	15.914	0.284	86.3	− 3	3645
3563	9.8		30	4.08	4	3.1374	0.0101	− 4	34	18.7	4	15.906	0.285	87.4	− 4	3718
3564	8		30	40.56	8	3.1260	0.0098	− 3	45	20.9	7	15.874	0.285	87.4; 86.7	− 3	3648
3565	8		30	53.21	4	3.1205	0.0096	− 3	22	8.6	3	15.862	0.285	84.7	− 3	3649
3566	8.7	14	31	35.09	6	+ 3.1446	+ 0.0103	− 5	1	36.7	6	− 15.825	+ 0.288	89.5	− 4	3725
3567	9		31	38.06	1	3.1063	0.0092	− 2	22	0.9	1	15.822	0.285	92.4	− 2	3869
3568	9		32	8.61	3	3.1653	0.0110	− 6	26	19.2	3	15.795	0.291	88.4	− 6	4039
3569	9.8		32	11.57	2	3.1064	0.0092	− 2	22	1.4	1	15.792	0.286	89.4; 86.4	− 2	3872
3570	7.8		32	14.42	4	3.1168	0.0095	− 3	5	25.9	4	15.790	0.287	87.1	− 2	3873
3571	8.9	14	32	14.93	3	+ 3.1683	+ 0.0111	− 6	38	28.0	3	− 15.789	+ 0.292	82.4	− 6	4041
3572	8.9		32	15.24	1	3.1470	0.0104	− 5	10	43.5	1	15.789	0.290	90.4	− 5	3913
3573	8		32	17.12	8	3.1101	0.0093	− 2	37	26.3	7	15.787	0.286	86.0	− 2	3874
3574	8		32	41.63	10	3.1485	0.0105	− 5	16	1.2	9	15.765	0.291	86.6	− 5	3916
3575	8.9		33	44.11	5	3.1689	0.0110	− 6	25	25.8	5	15.709	0.294	88.2	− 6	4048
3576	9.8	14	33	50.19	1	+ 3.1053	+ 0.0092	− 2	16	31.6	1	− 15.703	+ 0.288	92.4	− 2	3879
3577	9		33	52.61	1	3.1746	0.0113	− 7	0	9.5	1	15.701	0.295	88.4	− 6	4049
3578	9.8		34	39.63	2	3.1593	0.0108	− 5	56	34.3	2	15.658	0.295	88.4	− 5	3927
3579	8		34	46.25	5	3.1063	0.0092	− 2	19	51.8	4	15.652	0.290	86.4; 84.9	− 2	3882
3580	9.8		34	49.05	9	3.1473	0.0104	− 5	7	34.3	9	15.650	0.294	87.8	− 5	3928
3581	8	14	34	49.82	7	+ 3.1001	+ 0.0090	− 1	54	12.3	7	− 15.649	+ 0.289	86.4	− 1	2972
3582	8.9		34	58.80	8	3.1371	0.0101	− 4	25	29.3	8	15.641	0.293	86.7	− 4	3733
3583	9		35	43.99	2	3.1165	0.0095	− 3	0	34.3	2	15.600	0.292	89.4	− 2	3886
3584	9.8		36	37.41	3	3.1654	0.0109	− 6	17	32.0	2	15.550	0.298	88.4	− 6	4057
3585	9		37	0.36	1	3.1085	0.0093	− 2	26	49.5	1	15.529	0.294	92.4	− 2	3887
3586	9.8	14	37	30.09	2	+ 3.1641	+ 0.0109	− 6	10	37.4	2	− 15.502	+ 0.299	88.4	− 6	4060
3587	7.8		37	33.87	7	3.1019	0.0091	− 1	59	39.6	7	15.498	0.294	87.4	− 1	2981
3588	9		37	58.53	3	3.1289	0.0098	− 3	48	27.0	3	15.475	0.297	89.1	− 3	3663
3589	8.9		38	4.07	7	3.1599	0.0108	− 5	52	45.8	7	15.470	0.300	88.2	− 5	3941
3590	9.8		38	6.12	2	3.1476	0.0104	− 5	3	17.0	2	15.468	0.299	98.4	− 4	3744
3591	8	14	38	16.72	6	+ 3.1148	+ 0.0094	− 2	51	16.4	6	− 15.458	+ 0.296	87.6	− 2	3890
3592	9		38	21.30	3	3.1188	0.0096	− 3	7	25.1	3	15.454	0.297	88.7	− 3	3664
3593	8		38	37.81	6	3.1104	0.0094	− 2	33	11.2	6	15.439	0.296	86.7	− 2	3891
3594	8.9		38	50.09	1	3.1679	0.0110	− 6	23	8.1	1	15.427	0.302	90.4	− 6	4066
3595	8.9		38	56.00	3	3.1725	0.0111	− 6	40	58.2	3	15.422	0.302	83.8	− 6	4067
3596	8.9	14	39	0.24	2	+ 3.1656	+ 0.0109	− 6	13	43.2	2	− 15.418	+ 0.302	88.4	− 6	4068
3597	9		39	38.98	2	3.1308	0.0099	− 3	53	46.1	2	15.382	0.300	91.4	− 3	3667
3598	8		40	0.91	3	3.1760	0.0112	− 6	52	42.6	3	15.361	0.304	88.0	− 6	4071
3599	9		40	28.48	1	3.1089	0.0093	− 2	25	51.8	1	15.335	0.299	92.4	− 2	3894
3600	8.9		40	56.74	16	3.1286	0.0098	− 3	43	48.1	16	15.309	0.301	87.1	− 3	3673

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
3601	9.8	14	41	33.21	3	+3.1159	+0.0095	−2	52	37.9	3	−15.274	+0.301	87.4	−2	3897
3602	8		41	43.86	7	3.1482	0.0104	−5	0	13.9	7	15.264	0.304	86.8	−4	3749
3603	8		42	19.55	4	3.1731	0.0111	−6	36	21.7	4	15.231	0.308	86.6	−6	4077
3604	8		42	47.13	11	3.1524	0.0105	−5	15	0.0	5	15.204	0.306	87.5; 88.2	−5	3952
3605	8		43	2.45	10	3.1532	0.0105	−5	17	28.3	6	15.190	0.307	87.1	−5	3953
3606	8.9	14	43	42.24	6	+3.1747	+0.0111	−6	39	54.1	4	−15.152	+0.310	85.9; 86.9	−6	4083
3607	9.8		43	46.23	1	3.1670	0.0109	−6	9	57.5	1	15.148	0.309	88.4	−6	4084
3608	8.9		44	36.32	19	3.1283	0.0098	−3	38	15.8	10	15.100	0.307	87.7; 87.1	−3	3680
3609	9.8		45	13.10	8	3.1026	0.0091	−1	57	28.2	8	15.065	0.305	87.3	−1	2992
3610	8.9		45	31.78	19	3.1279	0.0098	−3	35	46.4	9	15.047	0.308	87.5; 88.7	−3	3682
3611	8.9	14	45	41.63	3	+3.1794	+0.0112	−6	54	14.4	3	−15.037	+0.313	91.4	−6	4093
3612	9		45	48.03	2	3.1382	0.0101	−4	15	21.3	2	15.031	0.309	87.9	−4	3763
3613	9.8		45	59.79	9	3.1269	0.0098	−3	31	22.0	8	15.020	0.309	90.1; 88.7	−3	3683
3614	8.9		46	2.86	9	3.1192	0.0096	−3	1	29.2	9	15.017	0.308	88.2	−2	3907
3615	8.9		46	51.08	1	3.1772	0.0111	−6	43	26.6	1	14.970	0.315	88.4	−6	4098
3616	9	14	47	35.68	4	+3.1425	+0.0102	−4	29	25.4	4	−14.927	+0.312	91.4	−4	3769
3617	9		47	38.16	5	3.1036	0.0091	−2	0	4.8	5	14.924	0.309	88.6	−1	2994
3618	8		47	41.66	7	3.1518	0.0104	−5	4	48.0	7	14.921	0.314	88.8	−4	3770
3619	8.9		48	10.46	9	3.1808	0.0112	−6	54	33.8	9	14.892	0.317	87.4	−6	4101
3620	9.8		48	19.06	3	3.1438	0.0102	−4	33	39.6	2	14.884	0.314	86.7; 85.4	−4	3772
3621	8	14	48	42.02	9	+3.1216	+0.0096	−3	8	33.3	9	−14.862	+0.312	85.6	−3	3687
3622	8		48	51.24	5	3.1795	0.0111	−6	48	13.6	1	14.853	0.318	90.0; 84.4	−6	4102
3623	8		49	55.83	5	3.1655	0.0108	−5	53	31.8	5	14.789	0.318	88.2	−5	3966
3624	8.9		50	5.25	7	3.1369	0.0100	−4	5	2.2	4	14.780	0.315	87.8; 89.4	−3	3694
3625	8.9		50	5.43	5	3.1375	0.0100	−4	7	21.1	3	14.780	0.316	87.4; 85.7	−4	3778
3626	8.9	14	50	25.84	9	+3.1459	+0.0102	−4	38	45.6	9	−14.760	+0.317	87.6	−4	3779
3627	9.8		50	35.74	1	3.1560	0.0105	−5	16	28.5	1	14.750	0.318	90.4	−5	3969
3628	8.9		50	49.25	3	3.1681	0.0108	−6	1	35.7	3	14.737	0.320	89.4	−5	3971
3629	5.6		50	54.95	5	3.1335	0.0099	−3	51	23.9	5	14.731	0.316	84.8	−3	3696
3630	8.9		51	22.01	2	3.1720	0.0109	−6	15	29.1	2	14.704	0.321	88.4	−6	4111
3631	8	14	51	27.07	7	+3.1287	+0.0098	−3	32	48.0	7	−14.699	+0.317	85.2	−3	3698
3632	9.8		51	52.42	2	3.1655	0.0107	−5	50	27.9	1	14.674	0.321	93.4	−5	3974
3633	8.9		52	15.98	7	3.1674	0.0107	−5	56	44.1	6	14.650	0.322	88.1; 87.2	−5	3977
3634	9		52	28.87	3	3.1106	0.0093	−2	24	2.7	3	14.638	0.316	90.4	−2	3921
3635	7		52	37.38	13	3.1444	0.0102	−4	30	19.6	13	14.629	0.320	87.9	−4	3783
3636	8.9	14	53	15.82	6	+3.1150	+0.0094	−2	39	39.7	6	−14.591	+0.318	84.7	−2	3923
3637	9.8		53	34.24	1	3.1591	0.0105	−5	23	53.1	1	14.572	0.323	90.4	−5	3983
3638	9		54	31.82	3	3.1123	0.0094	−2	28	54.4	2	14.514	0.319	88.4; 89.4	−2	3926
3639	9.8		54	36.65	4	3.1366	0.0099	−3	58	45.0	4	14.510	0.322	92.4	−3	3706
3640	9.8		54	48.30	5	3.1110	0.0093	−2	23	37.2	3	14.498	0.320	88.4; 87.7	−2	3927
3641	9	14	54	49.74	2	+3.1020	+0.0091	−1	50	26.8	2	−14.496	+0.319	89.9	−1	3006
3642	9		54	54.14	3	3.1308	0.0098	−3	37	18.2	3	14.492	0.322	89.1	−3	3707
3643	6		55	5.84	9	3.1091	0.0093	−2	16	40.7	7	14.480	0.320	86.0; 84.8	−2	3928
3644	7.8		55	20.64	5	3.1158	0.0094	−2	41	11.6	5	14.465	0.321	85.6	−2	3930
3645	7		55	45.37	8	3.1879	0.0112	−7	6	3.8	6	14.440	0.329	87.4; 86.4	−7	3944
3646	8.9	14	56	22.36	6	+3.1389	+0.0100	−4	5	29.8	6	−14.403	+0.325	86.2	−3	3713
3647	7		56	30.89	4	3.1139	0.0094	−2	33	28.8	3	14.394	0.322	85.9	−2	3933
3648	9		56	36.28	1	3.1111	0.0093	−2	22	58.3	1	14.389	0.322	92.4	−2	3934
3649	9.8		56	58.41	1	3.1128	0.0093	−2	29	1.7	1	14.366	0.323	94.2	−2	3936
3650	9		57	12.17	3	3.1611	0.0105	−5	25	40.1	3	14.352	0.328	89.1	−5	3999

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		h	m	s		s	s	°	′	″		″	″		°	
3651	8	14	57	13.42	6	+ 3.1887	+ 0.0112	− 7	5	59.3	4	− 14.351	+ 0.331	86.1; 88.2	− 6	4124
3652	8.9		57	14.33	3	3.1163	0.0094	− 2	41	46.4	3	14.350	0.324	85.8	− 2	3937
3653	9		57	28.85	1	3.1234	0.0096	− 3	7	43.7	1	14.335	0.325	87.4	− 3	3717
3654	9		57	37.88	1	3.1710	0.0108	− 6	1	5.8	1	14.326	0.330	88.4	− 5	4000
3655	8		57	46.53	8	3.1776	0.0109	− 6	25	0.0	7	14.317	0.331	89.3	− 6	4125
3656	8	14	59	10.17	4	+ 3.1804	+ 0.0110	− 6	32	45.0	3	− 14.232	+ 0.333	86.4; 84.8	− 6	4130
3657	9.8		59	11.13	4	3.1462	0.0101	− 4	32	35.8	4	14.230	0.330	89.6	− 4	3804
3658	9		59	20.51	2	3.1777	0.0109	− 6	22	36.5	2	14.221	0.333	88.4	− 6	4132
3659	9		59	24.13	3	3.1366	0.0099	− 3	54	0.0	3	14.217	0.329	91.4	− 3	3725
3660	9.8		59	41.78	10	3.1309	0.0097	− 3	32	5.6	10	14.199	0.329	87.0	− 3	3726
3661	9	15	0	19.71	2	+ 3.1032	+ 0.0091	− 1	52	11.6	1	− 14.160	+ 0.327	86.4	− 1	3018
3662	9		0	31.76	1	3.1171	0.0094	− 2	42	19.4	1	14.147	0.328	87.4	− 2	3944
3663	9		0	36.80	3	3.1614	0.0104	− 5	22	7.6	3	14.142	0.333	88.8	− 5	4011
3664	8.9		0	47.37	3	3.1027	0.0091	− 1	50	2.4	1	14.131	0.327	89.7; 86.4	− 1	3020
3665	8		0	56.07	5	3.1025	0.0091	− 1	49	3.8	3	14.122	0.327	86.8	− 1	3021
3666	9.8	15	1	20.52	7	+ 3.1074	+ 0.0092	− 2	6	33.6	7	− 14.097	+ 0.328	86.7	− 2	3946
3667	9		1	41.77	3	3.1485	0.0101	− 4	34	12.7	3	14.075	0.333	90.7	− 4	3816
3668	9		1	47.79	1	3.1114	0.0093	− 2	20	48.9	1	14.069	0.329	92.4	− 2	3949
3669	8		1	50.02	5	3.1272	0.0096	− 3	17	45.8	5	14.066	0.331	85.4	− 3	3730
3670	9.8		2	33.77	1	3.1748	0.0107	− 6	7	0.1	1	14.021	0.337	93.4	− 6	4141
3671	9.8	15	2	36.03	1	+ 3.1588	+ 0.0104	− 5	10	0.1	1	− 14.018	+ 0.335	93.4	− 5	4018
3672	9.8		2	41.12	4	3.1317	0.0097	− 3	33	5.4	4	14.013	0.333	87.6	− 3	3733
3673	8.9		2	57.56	7	3.1077	0.0092	− 2	7	1.9	6	13.996	0.331	86.3; 85.4	− 2	3950
3674	8.7		3	16.61	7	3.1551	0.0103	− 4	56	3.1	7	13.976	0.336	86.0	− 4	3818
3675	8.9		3	21.30	2	3.1291	0.0097	− 3	23	7.5	2	13.971	0.333	82.4	− 3	3736
3676	8.9	15	3	34.37	4	+ 3.1776	+ 0.0108	− 6	15	33.8	4	− 13.957	+ 0.339	89.4	− 6	4146
3677	9		3	40.12	2	3.1053	0.0091	− 1	57	50.5	2	13.951	0.331	86.4	− 1	3028
3678	8.9		4	18.01	6	3.1921	0.0111	− 7	5	19.8	6	13.912	0.341	88.4	− 6	4147
3679	8.9		4	49.22	7	3.1248	0.0095	− 3	6	41.3	7	13.879	0.335	87.4	− 3	3740
3680	7.8		5	22.32	6	3.1028	0.0090	− 1	48	19.1	6	13.844	0.333	85.4	− 1	3030
3681	8.9	15	5	25.33	8	+ 3.1574	+ 0.0103	− 5	1	40.4	8	− 13.841	+ 0.339	86.4	− 4	3828
3682	9.8		5	51.42	2	3.1799	0.0108	− 6	20	0.2	2	13.813	0.342	88.4	− 6	4154
3683	8		6	44.97	7	3.1274	0.0096	− 3	14	25.1	7	13.756	0.338	85.3	− 3	3744
3684	8.9		6	52.52	9	3.1441	0.0099	− 4	12	52.6	9	13.748	0.340	86.1	− 4	3832
3685	8.9		7	50.25	6	3.1352	0.0097	− 3	40	53.6	6	13.687	0.340	85.1	− 3	3747
3686	8.9	15	8	7.57	6	+ 3.1665	+ 0.0104	− 5	30	0.5	6	− 13.669	+ 0.344	86.8	− 5	4034
3687	8		8	13.53	4	3.1222	0.0094	− 2	54	55.9	4	13.662	0.339	88.2	− 2	3960
3688	8.9		8	18.56	5	3.1980	0.0111	− 7	1	33.5	5	13.657	0.347	85.2	− 6	4160
3689	9		8	28.60	3	3.1444	0.0099	− 4	12	18.1	3	13.646	0.342	88.4	− 4	3838
3690	9		8	30.48	1	3.1428	0.0099	− 4	7	0.3	1	13.644	0.342	92.4	− 4	3839
3691	6.7	15	8	31.00	7	+ 3.1590	+ 0.0102	− 5	8	19.0	7	− 13.644	+ 0.344	88.1	− 4	3840
3692	8		8	44.38	5	3.1060	0.0091	− 1	58	0.6	4	13.629	0.338	82.4; 81.6	− 1	3041
3693	9.8		9	22.85	1	3.1749	0.0106	− 5	57	10.7	1	13.588	0.346	95.4	− 5	4039
3694	7.8		9	42.92	5	3.1490	0.0100	− 4	27	6.6	5	13.566	0.344	87.0	− 4	3847
3695	9		9	46.59	3	3.1052	0.0090	− 1	54	34.3	1	13.563	0.339	85.4	− 1	3042
3696	8.9	15	10	58.86	4	+ 3.1370	+ 0.0097	− 3	44	30.0	4	− 13.485	+ 0.344	86.4	− 3	3757
3697	8.9		11	9.04	5	3.1951	0.0110	− 7	3	57.4	5	13.474	0.351	87.4	− 6	4170
3698	7		11	22.50	4	3.1549	0.0101	− 4	45	38.1	4	13.459	0.347	85.7	− 4	3855
3699	8.7		11	24.39	5	3.1426	0.0098	− 4	3	11.7	3	13.457	0.346	87.0; 83.4	− 3	3758
3700	9.8		12	24.19	3	3.1608	0.0102	− 5	4	53.3	3	13.392	0.349	91.4	− 4	3858

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3701	8.9	15	12	24.38	2	+ 3.1133	+ 0.0092	− 2	21	30.1	2	− 13.392	+ 0.344	79.9	− 2	3972
3702	8		12	40.34	10	3.1439	0.0098	− 4	6	28.0	8	13.375	0.347	88.5; 89.8	− 4	3859
3703	8.9		13	1.09	1	3.1024	0.0090	− 1	43	37.2	1	13.352	0.343	86.4	− 1	3046
3704	9.8		13	27.94	1	3.1782	0.0106	6	2	45.5	1	13.323	0.352	95.4	− 5	4053
3705	9.8		13	39.61	1	3.1217	0.0093	− 2	49	30.0	1	13.310	0.346	95.4	− 2	3974
3706	9	15	13	48.87	1	+ 3.1745	+ 0.0105	− 5	49	40.7	1	− 13.300	+ 0.352	88.4	− 5	4054
3707	7.6		14	16.98	5	3.1545	0.0100	− 4	41	2.8	5	13.270	0.351	85.6	− 4	3866
3708	6.7		14	35.66	7	3.1069	0.0090	− 1	58	23.9	7	13.249	0.346	81.5	− 1	3047
3709	8		14	46.82	3	3.1811	0.0106	− 6	10	46.7	3	13.237	0.354	87.7	− 6	4181
3710	6.7		14	47.18	6	3.1671	0.0103	− 5	23	25.4	6	13.236	0.353	86.8	− 5	4057
3711	8	15	15	11.12	3	+ 3.1850	+ 0.0107	− 6	23	32.6	3	− 13.210	+ 0.355	86.8	− 6	4183
3712	9.8?		15	36.94	1	3.1367	0.0096	− 3	39	12.8	1	13.182	0.350	85.4	− 3	3770
3713	9		15	47.74	1	3.1490	0.0099	− 4	20	48.1	1	13.170	0.352	89.4	− 4	3873
3714	8.9		15	51.19	7	3.1636	0.0102	− 5	10	24.5	7	13.166	0.354	88.1	− 5	4060
3715	8.9		16	55.40	13	3.1225	0.0093	− 2	50	18.0	8	13.095	0.351	86.3	− 2	3985
3716	9	15	16	58.60	1	+ 3.1850	+ 0.0106	− 6	20	57.4	1	− 13.092	+ 0.358	88.4	− 6	4192
3717	9.8		17	0.04	8	3.1230	0.0093	− 2	51	57.5	5	13.090	0.351	90.8; 88.6	− 2	3987
3718	8.7		17	3.51	5	3.1820	0.0105	− 6	10	41.5	5	13.086	0.357	87.6	− 6	4193
3719	9.8		17	59.01	4	3.1420	0.0097	− 3	55	6.7	4	13.025	0.354	88.8	− 3	3777
3720	8.9		18	1.85	5	3.1554	0.0100	− 4	40	20.4	5	13.022	0.356	83.8	− 4	3880
3721	8.9	15	18	4.26	1	+ 3.1754	+ 0.0104	− 5	47	13.1	1	− 13.019	+ 0.358	88.4	− 5	4066
3722	8.9		18	9.31	6	3.1582	0.0100	− 4	49	24.9	6	13.014	0.356	89.4	− 4	3881
3723	8.9		18	29.70	3	3.1768	0.0104	− 5	51	19.1	1	12.991	0.359	90.8; 95.4	− 5	4067
3724	8		18	42.84	3	3.1763	0.0104	− 5	49	19.6	1	12.976	0.359	90.8; 88.4	− 5	4069
3725	8		18	45.67	8	3.1704	0.0102	− 5	29	34.3	8	12.973	0.358	85.0	− 5	4070
3726	8.9	15	19	3.85	4	+ 3.1673	+ 0.0102	− 5	19	1.4	3	− 12.953	+ 0.358	90.6; 91.4	− 5	4071
3727	8.9		20	18.39	1	3.1663	0.0101	− 5	14	3.5	1	12.870	0.360	78.4	− 5	4076
3728	8.9		20	47.52	1	3.1694	0.0102	− 5	28	50.2	1	12.837	0.361	88.4	− 5	4079
3729	8.9		21	51.42	5	3.1810	0.0104	− 6	1	6.4	4	12.765	0.363	90.2	− 5	4081
3730	8.9		22	1.78	1	3.1732	0.0102	− 5	35	5.7	1	12.754	0.363	83.4	− 5	4083
3731	9.8	15	22	31.81	3	+ 3.1850	+ 0.0104	− 6	18	24.4	3	− 12.720	+ 0.364	89.1	− 6	4215
3732	8		22	35.96	5	3.1783	0.0103	− 5	51	12.5	5	12.715	0.364	87.8	− 5	4086
3733	8.9		22	50.78	11	3.1481	0.0097	− 4	11	10.5	11	12.699	0.361	87.7	− 4	3895
3734	8		23	41.40	2	3.1893	0.0105	− 6	25	53.4	2	12.641	0.368	80.9	− 6	4219
3735	9.8		24	5.94	2	3.1854	0.0104	− 6	12	16.3	2	12.614	0.367	83.4	− 6	4221
3736	9.8	15	24	9.20	2	+ 3.2013	+ 0.0107	− 7	4	11.0	2	− 12.610	0.368	81.9	− 6	4222
3737	9		24	40.90	1	3.1521	0.0097	− 4	22	42.2	1	12.574	+ 0.363	89.4	− 4	3899
3738	8.9		24	41.43	5	3.1501	0.0097	− 4	16	18.6	5	12.573	0.363	85.2	− 4	3900
3739	9		24	41.69	2	3.1818	0.0103	− 5	58	27.4	2	12.573	0.367	88.4	− 5	4090
3740	9.8		24	48.98	2	3.1598	0.0099	− 4	47	45.4	2	12.565	0.364	85.4	− 4	3901
3741	9.8	15	24	49.27	9	+ 3.1443	+ 0.0096	− 3	57	7.8	9	− 12.564	+ 0.363	88.4	− 3	3793
3742	9		25	35.25	1	3.1811	0.0103	− 5	56	31.1	1	12.512	0.368	88.4	− 5	4098
3743	9.8		25	36.65	6	3.1108	0.0089	− 2	6	18.6	6	12.510	0.360	88.8	− 2	4009
3744	9.8		27	0.02	2	3.1541	0.0097	− 4	27	17.5	2	12.415	0.367	90.9	− 4	3914
3745	9		27	5.53	1	3.1498	0.0096	− 4	13	12.4	1	12.409	0.366	92.4	− 4	3915
3746	8	15	27	23.29	8	+ 3.1256	+ 0.0092	− 2	53	55.7	6	− 12.388	+ 0.364	85.4; 88.1	− 2	4014
3747	9		27	54.64	1	3.1522	0.0096	− 4	20	16.4	1	12.353	0.367	89.4	− 4	3920
3748	9.8		27	57.46	5	3.1452	0.0095	− 3	57	19.9	5	12.349	0.367	87.2	− 3	3797
3749	7		28	0.46	9	3.1699	0.0100	− 5	17	29.1	9	12.346	0.370	85.4	− 5	4100
3750	8.9		28	3.34	7	3.1150	0.0090	− 2	18	58.3	7	12.343	0.363	85.1	− 2	4015

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		h	m	s		s	s	°	'	"		"	"		°	
3751	8	15	28	16.50	3	+ 3.1191	+ 0.0090	− 2	32	17.7	3	− 12.327	+ 0.364	79.4	− 2	4016
3752	9.8		28	47.37	3	3.1596	0.0098	− 4	43	29.0	3	12.292	0.369	87.8	− 4	3924
3753	8.9		28	49.65	4	3.1262	0.0091	− 2	55	2.3	4	12.289	0.366	84.4	− 2	4018
3754	8.9?		29	26.12	1	3.1294	0.0092	− 3	5	16.4	1	12.247	0.367	95.4	− 3	3800
3755	9		29	46.35	1	3.1087	0.0088	− 1	58	1.3	1	12.224	0.365	76.4	− 1	—
3756	8.9	15	29	50.87	12	+ 3.1834	+ 0.0102	− 5	59	0.6	8	− 12.219	+ 0.373	87.8	− 5	4112
3757	8.9		29	58.80	7	3.1115	0.0089	− 2	7	2.4	7	12.209	0.365	87.0	− 2	4021
3758	8.9		30	4.62	5	3.1734	0.0100	− 5	26	21.3	4	12.203	0.372	86.6; 84.2	− 5	4114
3759	9.8		30	14.25	2	3.1278	0.0091	− 2	59	32.6	1	12.192	0.367	86.9; 96.4	− 2	4023
3760	9.8		30	17.45	1	3.1481	0.0095	− 4	4	52.8	1	12.188	0.370	86.4	− 3	3802
3761	9	15	30	12.78	4	+ 3.1403	+ 0.0094	− 3	39	48.1	4	− 12.187	+ 0.369	88.2	− 3	3801
3762	8.7		30	30.85	1	3.1770	0.0100	− 5	37	41.9	1	12.172	0.373	78.4	− 5	4117
3763	8.9		30	31.48	3	3.1511	0.0095	− 4	14	25.2	2	12.172	0.370	90.4	− 4	3930
3764	9		30	32.10	1	3.1504	0.0095	− 4	12	6.4	1	12.171	0.370	89.4	− 4	3931
3765	8		30	38.20	7	3.1570	0.0097	− 4	33	11.1	7	12.164	0.371	88.4	− 4	3933
3766	8.9	15	30	43.57	4	+ 3.1753	+ 0.0100	− 5	31	53.8	1	− 12.158	+ 0.373	87.4; 96.4	− 5	4119
3767	9		31	3.29	4	3.1827	0.0101	− 5	55	11.5	3	12.135	0.375	88.4	− 5	4121
3768	9		31	11.49	4	3.1812	0.0101	− 5	50	13.2	2	12.125	0.375	88.4	− 5	4122
3769	8		31	29.35	3	3.1321	0.0092	− 3	12	26.7	3	12.104	0.369	80.1	− 3	3806
3770	8.9		31	38.25	5	3.1661	0.0098	− 5	1	32.9	5	12.094	0.373	86.0	− 4	3936
3771	9	15	32	0.05	4	+ 3.1408	+ 0.0093	− 3	40	10.2	4	− 12.069	+ 0.371	83.4	− 3	3809
3772	8.9		32	23.08	8	3.1833	0.0101	− 5	55	26.1	6	12.042	0.376	87.6	− 5	4128
3773	8.9		32	35.37	6	3.1178	0.0089	− 2	26	9.0	6	12.028	0.369	88.7	− 2	4030
3774	8		32	39.86	1	3.1778	0.0100	− 5	37	52.1	1	12.022	0.376	79.4	− 5	4130
3775	9		33	22.90	1	3.1594	0.0096	− 4	38	17.1	1	11.972	0.375	92.4	− 4	3944
3776	9.8	15	34	0.55	7	+ 3.1087	+ 0.0087	− 1	56	14.6	7	− 11.928	+ 0.370	86.9	− 1	3079
3777	9		34	6.05	1	3.1125	0.0088	− 2	8	14.6	1	11.921	0.370	94.4	− 2	4031
3778	9.8?		34	22.48	1	3.1304	0.0091	− 3	5	19.7	1	11.902	0.373	95.4	− 3	3815
3779	8.9		34	29.42	5	3.1711	0.0098	− 5	14	35.7	5	11.894	0.377	87.4	− 5	4136
3780	8		34	58.55	3	3.1779	0.0099	− 5	35	25.1	3	11.860	0.379	84.4	− 5	4139
3781	8	15	35	10.66	3	+ 3.1147	+ 0.0088	− 2	14	52.1	3	− 11.846	+ 0.372	84.4	− 2	4034
3782	8.7		35	22.33	8	3.1869	0.0101	− 6	3	28.4	8	11.832	0.381	86.4	− 5	4143
3783	8.9		36	11.87	7	3.1624	0.0096	− 4	45	22.5	7	11.773	0.378	88.6	− 4	3953
3784	9		36	47.15	5	3.1677	0.0096	− 5	1	30.7	5	11.732	0.380	88.6	− 4	3955
3785	9.8		37	7.83	1	3.1398	0.0092	− 3	33	28.8	1	11.707	0.377	90.4	− 3	3818
3786	9	15	37	19.37	1	+ 3.1734	+ 0.0098	− 5	19	4.0	1	− 11.694	+ 0.381	93.4	− 5	4151
3787	9.8		37	48.36	4	3.1089	0.0086	− 1	55	35.9	4	11.659	0.374	88.2	− 1	3089
3788	9.8		38	5.53	6	3.1224	0.0088	− 2	37	58.5	6	11.639	0.376	87.9	− 2	4040
3789	8.9		38	9.33	9	3.1381	0.0091	− 3	27	28.2	9	11.634	0.378	85.0	− 3	3820
3790	9		38	57.25	2	3.1535	0.0094	− 4	15	14.7	2	11.577	0.381	89.4	− 4	3965
3791	7.8	15	39	5.19	9	+ 3.1826	+ 0.0098	− 5	46	4.9	6	− 11.568	+ 0.384	88.0	− 5	4158
3792	9		39	17.56	3	3.1814	0.0098	− 5	42	2.1	2	11.553	0.385	90.8; 91.9	− 5	4159
3793	9.8		39	55.69	3	3.1405	0.0091	− 3	33	43.2	3	11.508	0.380	87.1	− 3	3823
3794	8.9		40	13.01	6	3.1429	0.0091	− 3	41	5.2	6	11.487	0.381	84.4	− 3	3824
3795	7		40	22.83	3	3.1827	0.0098	− 5	44	45.8	3	11.475	0.386	82.5	− 5	4161
3796	9	15	40	26.80	2	+ 3.1620	+ 0.0095	− 4	40	16.6	1	− 11.470	+ 0.383	85.4; 80.4	− 4	3973
3797	9		40	31.12	1	3.1661	0.0095	− 4	53	7.2	1	11.465	0.384	92.4	− 4	3974
3798	9		40	57.44	1	3.1382	0.0090	− 3	25	58.1	1	11.434	0.381	91.5	− 3	3826
3799	8		41	2.21	6	3.1154	0.0087	− 2	14	37.6	6	11.428	0.378	85.1	− 2	4044
3800	8.9		41	2.53	3	3.1635	0.0094	− 4	44	44.0	2	11.428	0.384	84.4; 86.4	− 4	3975

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
3801	9	15 41 33.28	4	+ 3.1676	+ 0.0095	− 4 56 59.6	4	− 11.391	+ 0.385	86.4	− 4 3976
3802	9.8	41 36.25	5	3.1098	0.0086	− 1 56 52.9	5	11.387	0.378	85.8	− 1 3097
3803	8	41 53.07	6	3.1574	0.0093	− 4 24 51.1	6	11.367	0.384	88.2	− 4 3977
3804	9.8	42 8.50	1	3.1222	0.0087	− 2 35 17.5	1	11.348	0.380	95.4	− 2 4047
3805	9.8	42 17.00	1	3.1070	0.0085	− 1 48 2.4	1	11.338	0.379	93.4	− 1 3100
3806	6.7	15 42 39.70	7	+ 3.1389	+ 0.0090	− 3 26 59.7	7	− 11.311	+ 0.383	85.0	− 3 3829
3807	8	42 56.20	8	3.1276	0.0088	− 2 51 54.4	6	11.291	0.382	82.8; 83.9	− 2 4151
3808	8.7	43 40.33	5	3.1411	0.0090	− 3 33 12.7	5	11.238	0.384	86.2	− 3 3833
3809	8.9	44 8.17	3	3.1245	0.0087	− 2 41 27.0	2	11.204	0.383	87.1; 88.4	− 2 4055
3810	9.8	44 34.03	6	3.1883	0.0097	− 5 57 52.0	6	11.173	0.391	87.3	− 5 4178
3811	6.5	15 45 0.61	13	+ 3.1253	+ 0.0087	− 2 43 34.6	10	− 11.140	+ 0.384	85.4; 87.9	− 2 4058
3812	9.8	45 18.42	1	3.1819	0.0096	− 5 37 22.0	1	11.119	0.391	90.4	− 5 4182
3813	8.9	45 58.91	7	3.1096	0.0084	− 1 54 58.2	7	11.070	0.383	86.7	− 1 3108
3814	8.9	45 58.98	2	3.1496	0.0091	− 3 57 55.8	2	11.070	0.388	93.4	− 3 3836
3815	9	46 23.65	3	3.1765	0.0095	− 5 19 57.1	3	11.040	0.392	93.1	− 5 4185
3816	9.8	15 47 7.08	1	+ 3.2119	+ 0.0101	− 7 6 39.6	1	− 10.987	+ 0.396	83.4	− 7 4130
3817	8	47 7.76	6	3.1245	0.0086	− 2 40 14.5	6	10.986	0.386	87.9	− 2 4064
3818	8.9	47 21.49	10	3.1531	0.0091	− 4 7 41.5	10	10.969	0.390	87.2	− 4 3995
3819	9	47 35.36	1	3.1777	0.0095	− 5 22 25.7	1	10.952	0.393	88.4	− 5 4186
3820	8.9	48 8.36	4	3.1576	0.0091	− 4 20 55.4	4	10.912	0.391	87.2	− 4 3997
3821	9	15 49 3.27	3	+ 3.1534	+ 0.0090	− 4 7 23.9	2	− 10.845	+ 0.392	91.4	− 4 4000
3822	8.9	49 11.54	10	3.1522	0.0090	− 4 3 40.0	9	10.834	0.392	8[illegible].9	− 3 3846
3823*)	7.8	49 41.78	5	3.1080	0.0083	− 1 48 38.7	5	10.797	0.387	86.0	− 1 3118
3824	9	50 37.96	1	3.1497	0.0089	− 3 54 58.3	1	10.728	0.393	86.4	− 3 3847
3825	8	50 42.93	10	3.2006	0.0097	− 6 28 42.0	8	10.722	0.399	85.8	− 6 4317
3826	7.8	15 50 45.08	7	+ 3.1901	+ 0.0095	− 5 56 52.7	5	− 10.719	+ 0.398	84.4; 81.4	− 5 4199
3827	9.8	50 47.43	4	3.1244	0.0086	− 2 38 24.4	4	10.716	0.390	93.0	− 2 4077
3828	8	50 48.19	7	3.1722	0.0092	− 5 2 57.1	7	10.716	0.396	88.0	− 4 4007
3829	9.8	50 58.46	3	3.1888	0.0095	− 5 52 51.0	2	10.703	0.398	90.4; 92.0	− 5 4201
3830	9	51 36.75	5	3.1538	0.0089	− 4 6 47.8	5	10.656	0.394	89.8	− 4 4011
3831	9	15 51 44.31	6	+ 3.1283	+ 0.0085	− 2 49 41.9	6	− 10.646	+ 0.391	87.3	− 2 4080
3832	9	51 56.10	1	3.1742	0.0092	− 5 7 56.9	1	10.632	0.397	88.4	− 5 4206
3833	8	52 10.68	4	3.1987	0.0096	− 6 21 30.2	3	10.614	0.400	84.5; 85.8	− 6 4324
3834	9	52 18.21	1	3.1547	0.0089	− 4 9 2.3	1	10.604	0.395	92.4	− 4 4014
3835	8.9	52 38.87	9	3.1265	0.0086	− 2 43 47.1	7	10.579	0.392	88.1	− 2 4085
3836	9	15 52 57.87	2	+ 3.1761	+ 0.0092	− 5 12 56.7	2	− 10.555	+ 0.398	91.9	− 5 4208
3837	7	53 15.25	2	3.2112	0.0098	− 6 57 31.9	2	10.534	0.403	81.4	− 6 4330
3838	8	53 26.51	3	3.2057	0.0097	− 6 41 3.7	1	10.520	0.402	84.4	− 6 4331
3839	8.9	53 37.15	2	3.2077	0.0097	− 6 46 49.3	2	10.506	0.403	86.4	− 6 4332
3840	9.8	53 42.75	1	3.2022	0.0096	− 6 30 34.4	1	10.500	0.402	91.4	− 6 4333
3841	8	15 53 55.97	3	+ 3.1668	+ 0.0090	− 4 44 22.2	3	− 10.483	+ 0.398	81.1	− 4 4020
3842	8.9	54 12.51	1	3.1784	0.0092	− 5 18 42.1	1	10.462	0.400	95.4	− 5 4213
3843	8.9	54 24.43	6	3.1430	0.0087	− 3 32 29.9	5	10.448	0.396	88.6; 87.6	− 3 3857
3844	8.9	54 51.11	2	3.2052	0.0096	− 6 38 1.4	2	10.414	0.404	93.9	− 6 4337
3845	7	55 24.27	7	3.1409	0.0086	− 3 25 37.3	6	10.373	0.396	87.9; 87.0	− 3 3859
3846	9	15 55 50.24	1	+ 3.1325	+ 0.0085	− 3 0 20.1	1	− 10.341	+ 0.396	94.4	− 2 4093
3847	8	56 25.15	4	3.1392	0.0085	− 3 19 14.4	1	10.297	0.397	84.2; 86.4	− 3 3864
3848	8.9	56 29.73	4	3.1623	0.0089	− 4 28 53.3	4	10.291	0.400	85.9	− 4 4026
3849	8.9	56 34.12	4	3.1151	0.0082	− 2 8 9.0	4	10.286	0.394	84.4	− 2 4094
3850	7	56 40.82	6	3.1829	0.0092	− 5 29 57.8	6	10.277	0.403	85.1	− 5 4221

*) Dupl. maj.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
3851	9.8	15	56	52.77	1	+ 3.1594	+ 0.0088	− 4	20	1.2	1	− 10.262	+ 0.400	92.4	− 4	4029
3852	9		57	7.35	1	3.1330	0.0084	− 3	1	28.1	1	10.244	0.397	94.4	− 2	4098
3853	8.9		57	15.10	5	3.1718	0.0090	− 4	56	44.8	4	10.234	0.402	85.0	− 4	4032
3854	9.8		58	13.66	4	3.1709	0.0089	− 4	53	19.7	2	10.161	0.403	86.4	− 4	4036
3855	8.9		58	40.99	6	3.1560	0.0087	− 4	8	56.8	6	10.126	0.402	84.3	− 4	4038
3856	7.8	15	58	51.62	8	+ 3.1369	+ 0.0084	− 3	11	59.8	7	− 10.113	+ 0.399	89.2	− 3	3870
3857	8		59	3.03	4	3.1929	0.0092	− 5	57	46.9	2	10.099	0.407	84.0; 88.0	− 5	4231
3858	8		59	5.07	6	3.1333	0.0084	− 3	1	9.6	6	10.096	0.399	82.6	− 2	4105
3859	7		59	20.34	6	3.1931	0.0092	− 5	57	49.3	4	10.077	0.407	82.4	− 5	4234
3860	7		59	36.61	2	3.1901	0.0091	− 5	48	48.2	2	10.056	0.407	82.4	− 5	4235
3861	8	16	0	1.78	4	+ 3.1620	+ 0.0087	− 4	25	40.7	4	− 10.025	+ 0.404	81.4	− 4	4042
3862	8.9		0	6.84	3	3.1331	0.0083	− 3	0	5.3	2	10.018	0.400	79.4; 80.4	− 2	4108
3863	8.9		0	16.19	1	3.1214	0.0082	− 2	25	24.7	1	10.006	0.399	76.4	− 2	4110
3864	8.9		0	42.16	2	3.1316	0.0083	− 2	55	37.5	1	9.974	0.401	76.9	− 2	4111
3865	8		0	43.16	2	3.1443	0.0084	− 3	33	9.2	2	9.972	0.402	80.4	− 3	3875
3866	8	16	0	49.05	5	+ 3.1529	+ 0.0085	− 3	58	19.8	5	− 9.965	+ 0.403	83.1	− 3	3876
3867	9.8		1	21.56	1	3.1196	0.0081	− 2	19	43.9	1	9.924	0.400	93.4	− 2	4113
3868	8.9		2	48.95	6	3.1569	0.0086	− 4	8	52.3	6	9.813	0.406	87.8	− 4	4052
3869	8.9		3	6.99	3	3.2034	0.0092	− 6	24	36.8	3	9.790	0.412	83.1	− 6	4370
3870	8.9		3	8.40	4	3.1590	0.0086	− 4	14	53.9	2	9.786	0.406	90.2; 86.4	− 4	4054
3871	8.9	16	3	19.46	5	+ 3.1382	+ 0.0082	− 3	13	43.2	4	− 9.774	+ 0.404	82.8	− 3	3882
3872	6		3	33.75	13	3.1366	0.0082	− 3	9	0.7	9	9.756	0.404	83.1	− 3	3884
3873	9.8		4	19.06	3	3.1627	0.0086	− 4	25	5.9	3	9.698	0.408	81.4	− 4	4061
3874	8		4	56.14	2	3.1476	0.0083	− 3	40	32.2	2	9.651	0.407	80.9	− 3	3888
3875	9		5	47.30	2	3.1242	0.0080	− 2	31	38.2	2	9.585	0.404	93.4	− 2	4125
3876	6	16	6	37.84	12	+ 3.1528	+ 0.0083	− 3	54	41.2	8	− 9.520	+ 0.409	85.5; 82.7	− 3	3891
3877	8.7		7	7.50	4	3.1494	0.0082	− 3	44	36.1	2	9.482	0.409	83.7; 83.0	− 3	3896
3878	9.8		7	19.60	4	3.1261	0.0079	− 2	36	45.9	4	9.467	0.406	84.7	− 2	4130
3879	9.8		7	20.02	2	3.1946	0.0088	− 5	55	18.0	2	9.466	0.415	86.4	− 5	4259
3880	8.9		7	27.74	4	3.2088	0.0090	− 6	36	0.1	4	9.456	0.417	82.4	− 6	4386
3881	8.9	16	7	30.28	10	+ 3.1523	+ 0.0083	− 3	52	51.2	4	− 9.453	+ 0.410	85.6; 86.2	− 3	3899
3882	8.7		7	47.91	11	3.1518	0.0083	− 3	51	12.7	4	9.430	0.410	85.9; 89.5	− 3	3901
3883	8.9		7	50.42	3	3.1142	0.0078	− 2	1	59.4	2	9.427	0.405	84.4; 80.0	− 1	3153
3884	9		7	51.73	1	3.1155	0.0078	− 2	5	45.0	1	9.425	0.405	93.4	− 2	4132
3885	8.9		7	59.02	2	3.1296	0.0080	− 2	46	37.5	2	9.416	0.407	85.9	− 2	4134
3886	8.9	16	7	59.05	4	+ 3.1376	+ 0.0081	− 3	9	52.3	4	− 9.416	+ 0.408	79.7	− 3	3902
3887	8		8	44.16	1	3.2187	0.0091	− 7	3	23.3	1	9.358	0.419	78.4	− 6	4390
3888	8		8	45.84	3	3.1249	0.0079	− 2	32	38.2	2	9.356	0.407	91.8	− 2	4144
3889	8.9		9	0.56	1	3.1143	0.0077	− 2	1	55.9	1	9.337	0.406	93.4	− 1	3159
3890	7.6		10	26.40	1	3.1803	0.0085	− 5	11	49.2	1	9.226	0.416	95.4	− 5	4266
3891	8.7	16	10	36.60	1	+ 3.1482	+ 0.0081	− 3	39	18.5	1	− 9.212	+ 0.412	91.5	− 3	3910
3892	9		10	37.43	1	3.1955	0.0087	− 5	55	17.5	1	9.211	0.418	87.5	− 5	4267
3893	8.9		11	14.34	4	3.1939	0.0086	− 5	50	6.9	3	9.164	0.418	87.2	− 5	4270
3894	8		11	26.89	2	3.1466	0.0081	− 3	44	23.8	2	9.147	0.413	88.0	− 3	3915
3895*)	9		11	56.50	2	3.1134	0.0076	− 1	58	29.1	2	9.109	0.408	85.5	− 1	3166
3896	8.9	16	12	38.95	1	+ 3.2194	+ 0.0089	− 7	1	31.8	1	− 9.054	+ 0.423	78.4	− 6	4399
3897	7.8		12	43.70	3	3.2100	0.0088	− 6	34	49.9	3	9.047	0.422	83.4	− 6	4400
3898	8.9		12	54.59	2	3.1222	0.0077	− 2	23	36.2	1	9.033	0.410	84.9; 76.4	− 2	4156
3899	9		13	21.16	2	3.1215	0.0077	− 2	21	22.9	1	8.999	0.411	93.4	− 2	4158
3900	8		13	42.84	5	3.1294	0.0077	− 2	44	2.9	5	8.970	0.412	83.2	− 2	4160

*) Dupl. med.

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
3901	9	16 13 47.73	3	+3.1494	+0.0080	−3 41 21.5	3	−8.964	+0.415	84.5	−3 3920
3902	8.9	13 55.14	2	3.1661	0.0082	−4 28 51.8	2	8.954	0.417	84.5	−4 4094
3903	8.9	13 56.02	2	3.1616	0.0081	−4 16 5.6	2	8.958	0.416	89.5	−4 4095
3904	9.8	14 6.38	1	3.1700	0.0082	−4 39 48.7	1	8.940	0.417	77.5	−4 4096
3905	9.8	14 26.22	1	3.1486	0.0079	−3 38 30.6	1	8.914	0.415	84.4	−3 3921
3906	9.8	16 14 48.38	2	+3.1472	+0.0079	−3 34 25.2	1	−8.885	+0.415	84.5; 91.5	−3 3924
3907	9.8	15 30.05	1	3.2166	0.0087	−6 51 7.0	1	8.830	0.425	87.5	−6 4412
3908	9.8	16 2.63	1	3.2110	0.0086	−6 34 46.4	1	8.788	0.425	80.4	−6 4416
3909	8	16 14.12	4	3.1555	0.0079	−3 57 30.8	3	8.772	0.418	85.5	−3 3929
3910	8.9	16 16.65	5	3.1550	0.0079	−3 56 6.6	3	8.769	0.418	86.9; 85.5	−3 3930
3911	9.8	16 16 18.17	1	+3.1656	+0.0080	−4 26 12.1	1	−8.767	+0.419	96.4	−4 4101
3912	8	16 32.74	5	3.2185	0.0087	−6 55 35.0	5	8.748	0.426	84.1	−6 4419
3913	8.9	16 54.12	2	3.1669	0.0080	−4 29 23.4	1	8.720	0.420	88.4; 80.5	−4 4103
3914	8	17 29.47	5	3.1141	0.0074	−1 59 3.9	5	8.674	0.413	85.5	−1 3178
3915	9.8	17 34.28	4	3.1290	0.0076	−2 41 32.9	4	8.667	0.415	85.2	−2 4176
3916	8.9	16 17 49.73	6	+3.2021	+0.0084	−6 8 15.9	6	−8.647	+0.425	85.1	−6 4424
3917	9	18 13.40	2	3.1185	0.0074	−2 11 29.4	2	8.616	0.414	94.9	−2 4177
3918	8.7	18 24.98	14	3.1189	0.0074	−2 12 35.2	7	8.600	0.415	87.5; 85.0	−2 4179
3919	9	18 31.82	1	3.1393	0.0076	−3 10 24.1	1	8.592	0.417	91.5	−3 3937
3920	8.9	18 37.30	11	3.1186	0.0074	−2 11 34.2	4	8.584	0.415	87.5; 86.7	−2 4180
3921	8.9	16 18 47.59	1	+3.1204	+0.0074	−2 16 30.6	1	−8.571	+0.415	76.4	−2 4182
3922	8	19 15.04	3	3.1482	0.0077	−3 35 25.9	3	8.534	0.419	82.1	−3 3939
3923	9.8	19 15.10	3	3.1914	0.0082	−5 37 18.0	3	8.584	0.425	86.8	−5 4292
3924	9	19 39.51	1	3.2140	0.0085	−6 40 21.0	1	8.502	0.428	91.5	−6 4430
3925	9	19 47.48	1	3.1410	0.0076	−3 14 39.3	1	8.492	0.419	91.5	−3 3940
3926	9	16 19 55.89	2	+3.1656	+0.0079	−4 24 9.4	2	−8.480	+0.422	84.4	−4 4110
3927	8.9	20 43.19	6	3.1300	0.0074	−2 43 10.7	6	8.418	0.418	82.6	−2 4189
3928	9	21 6.53	4	3.1417	0.0076	−3 16 14.5	3	8.387	0.420	84.2; 86.5	−3 3948
3929	9.8	21 8.22	1	3.1677	0.0079	−4 29 18.6	1	8.385	0.423	96.4	−4 4115
3930	8.9	22 19.91	6	3.1157	0.0072	−2 2 30.1	5	8.290	0.417	84.8; 85.6	−1 3197
3931	8.9	16 22 26.09	5	+3.1827	+0.0079	−5 10 41.9	3	−8.282	+0.426	86.7; 82.8	−5 4304
3932	8.9	22 47.13	6	3.1829	0.0079	−5 11 7.9	3	8.254	0.427	85.6; 88.5	−5 4307
3933	9.8	23 14.79	1	3.1797	0.0079	−5 1 52.9	1	8.217	0.427	80.5	−4 4118
3934	9.8	24 3.30	4	3.1971	0.0080	−5 49 50.2	4	8.152	0.429	85.0	−5 4309
3935	9	24 22.43	2	3.1665	0.0077	−4 24 18.8	2	8.127	0.426	89.5	−4 4121
3936	8.9	16 24 26.49	5	+3.1453	+0.0074	−3 25 2.3	5	−8.121	+0.423	88.3	−3 3953
3937	8.9	24 34.51	9	3.1160	0.0071	−2 2 33.9	8	8.111	0.419	87.5; 88.3	−1 3202
3938	9.8	24 36.57	3	3.1204	0.0072	−2 15 10.6	3	8.108	0.420	83.5	−2 4202
3939	8	25 21.31	4	3.2176	0.0082	−6 45 49.1	3	8.048	0.433	84.5; 83.4	−6 4446
3940	8.9	25 30.62	7	3.1151	0.0071	−1 59 59.5	4	8.036	0.420	88.0; 87.2	−1 3206
3941	8.9	16 25 32.16	1	+3.1101	+0.0070	−1 45 58.4	1	−8.034	+0.419	92.5	−1 3207
3942	8.9	25 54.57	1	3.1632	0.0076	−4 14 27.1	1	8.004	0.426	96.4	−4 4124
3943	9	25 59.84	2	3.2213	0.0082	−6 55 37.7	2	7.997	0.434	87.5	−6 4450
3944	8.7	27 4.34	7	3.1583	0.0075	−4 0 18.2	7	7.910	0.427	83.8	−3 3961
3945	9.8	27 12.17	1	3.1876	0.0077	−5 21 32.5	1	7.900	0.431	95.4	−5 4316
3946	8.9	16 27 33.36	4	+3.1756	+0.0076	−4 48 4.5	4	−7.871	+0.429	81.2	−4 4128
3947	8.9	27 39.87	7	3.1484	0.0073	−3 32 13.5	7	7.863	0.426	86.2	−3 3964
3948	9	27 55.77	2	3.1973	0.0078	−5 47 56.4	2	7.841	0.433	87.5	−5 4317
3949	8	28 3.88	11	3.1992	0.0078	−5 52 59.6	8	7.830	0.433	84.5	−5 4318
3950	9.8	28 58.79	8	3.1150	0.0069	−1 59 3.0	7	7.757	0.422	89.4; 91.3	−1 3214

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
3951	8	16	29	18.21	5	+ 3.2027	+ 0.0078	− 6	1	57.9	4	− 7.731	+ 0.434	86.0; 87.5	− 5	4321
3952	8.9		29	30.25	5	3.2226	0.0080	− 6	56	28.6	5	7.714	0.437	83.7	− 6	4464
3953	6.5		30	3.40	12	3.1169	0.0069	− 2	4	2.2	12	7.670	0.423	84.5	− 2	4211
3954	8		30	23.80	5	3.2033	0.0077	− 6	2	54.6	3	7.642	0.435	86.9; 83.8	− 5	4323
3955	8		30	29.87	5	3.1878	0.0076	− 5	20	14.8	5	7.634	0.433	85.9	− 5	4324
3956	9.8	16	30	44.93	1	+ 3.1245	+ 0.0069	− 2	24	59.7	1	− 7.614	+ 0.425	93.5	− 2	4213
3957	8		30	59.37	1	3.1218	0.0069	− 2	17	18.6	1	7.594	0.425	76.4	− 2	4216
3958	9.8		31	4.64	2	3.1328	0.0070	− 2	47	57.3	2	7.587	0.426	83.9	− 2	4217
3959	7		31	35.97	4	3.2090	0.0077	− 6	17	43.0	4	7.545	0.437	86.2	− 6	4467
3960	9.8		31	38.12	2	3.1474	0.0071	− 3	28	3.4	2	7.542	0.429	94.0	− 3	3973
3961	9	16	31	55.92	1	+ 3.1969	+ 0.0076	− 5	44	19.6	1	− 7.518	+ 0.436	87.5	− 5	4328
3962	8		31	58.24	5	3.2226	0.0078	− 6	54	37.9	5	7.515	0.439	83.6	− 6	4469
3963	8.9		32	4.10	1	3.1198	0.0068	− 2	11	25.9	1	7.507	0.425	79.4	− 2	4219
3964	9.8		32	6.37	3	3.1667	0.0073	− 4	21	6.0	3	7.504	0.431	91.8	− 4	4139
3965	9		32	15.13	1	3.1727	0.0073	− 4	37	44.2	1	7.492	0.433	89.5	− 4	4140
3966	8.9	16	33	8.08	2	+ 3.1346	+ 0.0069	− 2	52	4.6	2	− 7.420	+ 0.428	78.5	− 2	4226
3967	8.9		33	24.55	5	3.1458	0.0070	− 3	22	54.4	6	7.398	0.430	86.6	− 3	3974
3968	9		33	27.26	1	3.1121	0.0067	− 1	49	49.8	1	7.394	0.425	92.5	− 1	3227
3969	9		33	29.59	1	3.2144	0.0077	− 6	31	22.0	1	7.391	0.439	87.5	− 6	4475
3970	8.9		33	35.01	6	3.1292	0.0068	− 2	37	9.6	5	7.384	0.427	84.1; 85.4	− 2	4227
3971	7	16	33	37.57	6	+ 3.1995	+ 0.0075	− 5	50	27.0	6	− 7.380	+ 0.437	85.6	− 5	4334
3972	9.8		34	34.63	1	3.1674	0.0072	− 4	21	56.0	1	7.303	0.433	96.4	− 4	4143
3973	7.8		34	52.52	5	3.1291	0.0068	− 2	36	28.4	3	7.278	0.428	82.8; 87.8	− 2	4230
3974	8.9		35	2.77	9	3.1591	0.0071	− 3	58	57.2	9	7.264	0.433	85.5	− 3	3978
3975	9		35	17.08	3	3.2140	0.0076	− 6	28	56.6	3	7.245	0.440	88.2	− 6	4482
3976	9	16	35	24.56	3	+ 3.1239	+ 0.0067	− 2	22	3.3	3	− 7.235	+ 0.428	83.5	− 2	4231
3977	8		35	33.80	13	3.1140	0.0066	− 1	54	44.6	7	7.222	0.427	88.5; 85.9	− 1	3230
3978	8.9		35	34.08	6	3.1147	0.0066	− 1	56	35.9	3	7.222	0.427	93.6	− 1	3231
3979	8.9		35	40.49	4	3.2190	0.0076	− 6	42	13.8	4	7.213	0.441	84.7	− 6	4485
3980	9		35	51.53	1	3.2258	0.0076	− 7	0	47.0	1	7.198	0.442	87.5	− 6	4487
3981	8	16	35	56.32	10	+ 3.1144	+ 0.0066	− 1	55	41.8	2	− 7.192	+ 0.427	89.7; 93.4	− 1	3233
3982	7.8		36	19.74	11	3.1134	0.0066	− 1	53	8.0	2	7.160	0.427	90.5; 78.4	− 1	3238
3983	8		36	52.98	7	3.1580	0.0069	− 3	55	17.5	5	7.114	0.434	86.6; 87.5	− 3	3982
3984	8.9		37	34.26	1	3.1269	0.0066	− 2	29	47.6	1	7.058	0.430	79.4	− 2	4234
3985	9.8		37	36.38	2	3.2101	0.0073	− 6	16	47.6	2	7.055	0.441	87.9	− 6	4491
3986	8	16	37	41.32	3	+ 3.1249	+ 0.0066	− 2	24	14.8	2	− 7.048	+ 0.430	78.4	− 2	4235
3987	9.8		38	3.41	6	3.1921	0.0072	− 5	27	43.6	6	7.018	0.439	84.0	− 5	4344
3988	8.9		38	13.50	4	3.1359	0.0067	− 2	54	16.0	2	7.005	0.432	82.5; 85.0	− 2	4239
3989	9.8		38	28.98	2	3.1838	0.0071	− 5	4	52.9	2	6.988	0.438	96.5	− 5	4346
3990	8.9		38	33.54	7	3.2235	0.0074	− 6	52	29.8	7	6.977	0.444	84.0	− 6	4494
3991	7	16	38	54.91	5	+ 3.1350	+ 0.0066	− 2	51	42.2	4	− 6.948	+ 0.432	81.4; 79.2	− 2	4242
3992	8.9		39	4.44	3	3.1560	0.0068	− 3	49	3.6	3	6.935	0.435	84.1	− 3	3988
3993	8		40	21.37	5	3.1377	0.0066	− 2	58	36.0	3	6.880	0.433	85.3; 88.8	− 2	4246
3994	8.9		40	43.55	1	3.2214	0.0073	− 6	45	26.4	1	6.799	0.445	87.5	− 6	4497
3995	8.9		40	48.09	1	3.1356	0.0065	− 2	52	42.8	1	6.798	0.433	93.4	− 2	4248
3996	9.8	16	40	59.06	4	+ 3.2048	+ 0.0071	− 6	0	26.9	3	− 6.778	+ 0.448	86.5; 83.2	− 5	4350
3997	9.8		41	0.97	6	3.2073	0.0072	− 6	7	17.1	6	6.775	0.448	88.5	− 6	4499
3998	9		41	2.43	1	3.1111	0.0065	− 1	45	43.6	1	6.778	0.433	93.4	− 1	3245
3999	9.8		42	0.50	5	3.1450	0.0066	− 3	18	5.7	5	6.693	0.435	88.5	− 3	3996
4000	9.8		42	27.12	4	3.1608	0.0067	− 4	0	46.8	4	6.657	0.438	90.5	− 3	4001

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
4001	8.7	16 42 30.86	7	+ 3.1672	+ 0.0067	− 4 18 0.6	7	− 6.652	+ 0.439	84.3	− 4 4165
4002	8.9	42 31.09	6	3.1472	0.0066	− 3 23 53.7	2	6.651	0.436	87.8; 80.9	− 3 4002
4003	9.8	42 36.69	5	3.1776	0.0068	− 4 46 19.2	5	6.644	0.440	86.7	− 4 4168
4004	8.9	42 48.71	4	3.1813	0.0068	− 4 56 6.3	4	6.627	0.441	84.5	− 4 4170
4005	8.9	43 12.30	10	3.1280	0.0064	− 2 31 32.6	9	6.595	0.434	84.6; 85.4	− 2 4254
4006	9.8	16 43 49.28	5	+ 3.1126	+ 0.0062	− 1 49 32.3	5	− 6.544	+ 0.432	85.5	− 1 3254
4007	6.7	44 6.63	13	3.1263	0.0063	− 2 26 37.9	7	6.520	0.434	85.0; 83.9	− 2 4259
4008	9	44 6.72	1	3.2205	0.0071	− 6 40 54.2	1	6.520	0.447	87.5	− 6 4506
4009	8	44 11.70	2	3.1479	0.0065	− 3 25 10.2	2	6.513	0.437	82.0	− 3 4008
4010	8.9	44 50.64	2	3.1397	0.0064	− 3 2 46.0	2	6.459	0.436	89.4	− 3 4011
4011	9.8	16 45 0.71	4	+ 3.2047	+ 0.0069	− 5 58 11.4	4	− 6.445	+ 0.445	90.2	− 5 4360
4012	8.9	45 17.65	1	3.1108	0.0061	− 1 44 25.1	1	6.422	0.432	93.4	− 1 3258
4013	8.9	45 32.80	2	3.1293	0.0062	− 2 34 23.9	2	6.401	0.435	85.4	− 2 4264
4014	9	45 42.54	1	3.2300	0.0070	− 7 5 25.2	1	6.387	0.449	87.5	− 7 4364
4015	9	45 50.85	1	3.1662	0.0065	− 4 14 6.4	1	6.376	0.440	89.5	− 4 4183
4016	8	16 45 50.88	6	+ 3.1968	+ 0.0068	− 5 35 3.0	6	− 6.376	+ 0.445	86.1	− 5 4364
4017	7	45 51.54	9	3.1298	0.0062	− 2 35 40.0	7	6.375	0.435	83.9	− 2 4265
4018	8.9	46 0.75	2	3.1557	0.0064	− 3 45 47.6	2	6.362	0.439	80.5	− 3 4014
4019	8.7	46 8.19	5	3.1821	0.0066	− 4 56 50.0	5	6.352	0.443	86.3	− 4 4185
4020	9	46 57.87	1	3.1739	0.0065	− 4 34 26.4	1	6.283	0.442	89.5	− 4 4187
4021	8.9	16 47 13.81	7	+ 3.1460	+ 0.0063	− 3 19 3.1	7	− 6.261	+ 0.439	86.6	− 3 4020
4022	8.7	47 25.01	7	3.1638	0.0064	− 4 7 10.0	3	6.246	0.441	90.2; 89.1	− 4 4191
4023	9	47 32.05	3	3.2318	0.0070	− 7 9 18.4	2	6.236	0.450	87.5	− 7 4370
4024	8	47 48.26	10	3.1643	0.0064	− 4 8 19.8	7	6.213	0.441	87.0; 86.1	− 4 4194
4025	8.9	47 51.36	6	3.2175	0.0068	− 6 30 49.8	5	6.209	0.449	84.8; 86.3	− 6 4513
4026	8	16 48 7.26	2	+ 3.1605	+ 0.0064	− 3 57 59.3	2	− 6.187	+ 0.441	89.5	− 3 4023
4027	5.6	48 10.86	10	3.2050	0.0067	− 5 57 23.0	8	6.182	0.447	87.0	− 5 4374
4028	9	48 33.71	1	3.1778	0.0065	− 4 44 10.0	1	6.150	0.444	89.5	− 4 4199
4029	7.8	48 41.37	8	3.2163	0.0068	− 6 27 16.6	5	6.140	0.449	82.0; 79.7	− 6 4516
4030	9.8	49 16.46	5	3.1832	0.0065	− 4 58 22.4	5	6.091	0.445	86.3	− 4 4202
4031	9.8	16 49 20.50	8	+ 3.1226	+ 0.0060	− 2 15 33.2	7	− 6.085	+ 0.437	85.8; 84.9	− 2 4275
4032	8	49 23.76	5	3.2046	0.0066	− 5 55 43.8	4	6.081	0.448	83.5; 85.0	− 5 4378
4033	9.8	50 33.23	5	3.1224	0.0059	− 2 14 51.2	2	5.984	0.437	89.9; 92.5	− 2 4280
4034	8	50 39.82	4	3.1138	0.0059	− 1 51 35.0	4	5.975	0.436	86.0	− 1 3271
4035	8.9	50 52.05	7	3.1355	0.0060	− 2 49 54.0	5	5.958	0.439	85.3	− 2 4281
4036	9.8	16 51 13.49	1	+ 3.1332	+ 0.0060	− 2 43 37.9	1	− 5.928	+ 0.439	93.4	− 2 4282
4037	8.7	51 21.90	10	3.1354	0.0060	− 2 49 40.6	4	5.916	0.439	85.8; 84.7	− 2 4283
4038	9	51 51.14	1	3.1128	0.0058	− 1 48 45.1	1	5.876	0.437	93.4	− 1 3274
4039	8.9	51 58.96	10	3.1652	0.0062	− 4 9 23.5	8	5.865	0.444	87.8; 89.2	− 4 4206
4040	9	52 12.29	2	3.1177	0.0058	− 2 1 59.5	1	5.846	0.437	93.5	− 1 3275
4041	9.8	16 52 14.64	1	+ 3.1503	+ 0.0061	− 3 29 25.3	1	− 5.843	+ 0.442	96.4	− 3 4036
4042	9	52 25.05	1	3.2188	0.0066	− 6 32 0.8	1	5.828	0.452	87.5	− 6 4529
4043	8.9	52 36.75	5	3.1352	0.0059	− 2 48 39.6	2	5.812	0.440	86.8; 90.5	− 2 4285
4044	9.8	52 46.30	2	3.1130	0.0058	− 1 49 4.9	1	5.799	0.437	86.4; 79.4	− 1 3276
4045	9.8	53 6.35	2	3.1989	0.0064	− 5 38 40.0	2	5.770	0.449	85.5	− 5 4390
4046	8	16 53 29.89	4	+ 3.1628	+ 0.0061	− 4 2 20.9	3	− 5.738	+ 0.444	85.0	− 3 4040
4047	8.9	53 37.34	8	3.1657	0.0061	− 4 9 59.2	6	5.727	0.445	86.1	− 4 4212
4048	9.8	53 52.64	5	3.1176	0.0057	− 2 1 17.9	4	5.706	0.438	88.5; 87.2	− 1 3279
4049	8.9	54 20.59	7	3.2159	0.0064	− 6 23 14.8	7	5.667	0.452	84.6	− 6 4537
4050	8	54 21.70	1	3.1106	0.0057	− 1 42 33.4	1	5.665	0.438	76.4	− 1 3281

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
4051	6	16	54	43.92	6	+ 3.1630	+ 0.0060	− 4	2	27.3	2	− 5.634	+ 0.445	86.6	− 4	4215
4052	8.7		54	45.90	5	3.2265	0.0064	− 6	50	59.6	5	5.631	0.454	81.7	− 6	4538
4053	9.8		54	58.41	6	3.1630	0.0060	− 4	2	22.4	4	5.614	0.445	86.6; 85.0	− 4	4217
4054	8		55	8.65	7	3.2199	0.0063	− 6	33	32.0	7	5.600	0.453	85.9	− 6	4539
4055	8.9		55	22.14	3	3.1529	0.0059	− 3	35	30.3	3	5.581	0.444	83.8	− 3	4048
4056	9	16	56	14.08	4	+ 3.1963	+ 0.0062	− 5	30	35.0	3	− 5.508	+ 0.451	87.2; 88.5	− 5	4393
4057	8		56	32.02	7	3.2116	0.0062	− 6	10	45.3	7	5.483	0.453	86.2	− 6	4542
4058	8		57	45.57	7	3.1266	0.0056	− 2	24	46.4	6	5.379	0.442	86.9	− 2	4294
4059	7.8		58	48.45	5	3.1820	0.0059	− 4	51	37.2	5	5.291	0.450	79.3	− 4	4225
4060	9		58	54.55	2	3.1312	0.0056	− 2	36	49.2	1	5.282	0.443	84.5; 92.5	− 2	4299
4061	9	16	59	18.34	2	+ 3.2189	+ 0.0061	− 6	28	55.8	2	− 5.249	+ 0.455	88.0	− 6	4548
4062	9.8		59	43.41	4	3.2081	0.0060	− 6	0	5.7	4	5.214	0.454	88.0	− 5	4401
4063	9.8	17	0	14.60	1	3.1271	0.0055	− 2	25	38.7	1	5.170	0.443	90.5	− 2	4301
4064	9.8		0	35.72	2	3.1202	0.0054	− 2	7	21.0	2	5.140	0.442	93.5	− 2	4302
4065	7.8		0	57.13	5	3.1334	0.0054	− 2	42	8.4	5	5.110	0.444	77.2	− 2	4304
4066	8.9	17	1	41.78	8	+ 3.1666	+ 0.0056	− 4	10	8.3	8	− 5.047	+ 0.449	84.8	− 4	4233
4067	8.9		1	44.81	1	3.1292	0.0054	− 2	30	49.6	1	5.043	0.444	76.4	− 2	4305
4068	7.8		1	49.30	1	3.1123	0.0053	− 1	46	1.9	1	5.036	0.440	76.4	− 1	3295
4069	9		1	57.06	1	3.2174	0.0059	− 6	23	44.0	1	5.025	0.456	87.5	− 6	4553
4070	9		2	18.70	3	3.2138	0.0058	− 6	14	6.9	3	4.995	0.456	88.2	− 6	4555
4071	8	17	2	26.70	5	+ 3.1864	+ 0.0057	− 5	2	8.2	5	− 4.983	+ 0.452	84.7	− 5	4409
4072	8.9		2	29.39	1	3.1164	0.0053	− 1	57	1.4	1	4.980	0.442	81.5	− 1	3296
4073	6		2	35.71	7	3.1566	0.0055	− 3	43	16.8	6	4.971	0.448	86.0; 87.5	− 3	4063
4074	9.8		3	8.92	1	3.2161	0.0058	− 6	19	50.4	1	4.924	0.457	77.5	− 6	4559
4075	9		3	53.92	1	3.1786	0.0056	− 4	40	53.9	1	4.860	0.452	89.5	− 4	4259
4076	9	17	4	25.47	1	+ 3.2075	+ 0.0057	− 5	56	41.7	1	− 4.815	+ 0.456	88.5	− 5	4411
4077	9.8		4	32.90	5	3.1945	0.0056	− 5	22	39.3	4	4.805	0.454	86.1	− 5	4412
4078	9		4	56.18	2	3.2199	0.0057	− 6	28	58.2	2	4.772	0.458	88.0	− 6	4565
4079	8.7		5	22.07	5	3.1744	0.0054	− 4	29	31.1	5	4.735	0.452	83.3	− 4	4243
4080	8		5	30.89	9	3.1450	0.0053	− 3	12	0.7	9	4.723	0.448	84.0	− 3	4072
4081	8	17	6	25.56	5	+ 3.1612	+ 0.0053	− 3	54	24.5	5	− 4.645	+ 0.451	84.1	− 3	4074
4082	9		6	26.89	2	3.1643	0.0053	− 4	2	37.2	2	4.643	0.451	89.5	− 4	4245
4083	9.8		6	36.44	6	3.1205	0.0051	− 2	7	18.0	6	4.630	0.445	88.6	− 2	4313
4084	9.8		6	56.27	4	3.1863	0.0054	− 5	0	22.1	4	4.602	0.454	83.2	− 4	4247
4085	9.8		7	36.80	1	3.1578	0.0052	− 3	45	24.2	1	4.544	0.450	96.4	− 3	4077
4086	8.7	17	8	3.26	7	+ 3.1639	+ 0.0052	− 4	1	17.2	6	− 4.506	+ 0.452	87.8; 89.5	− 3	4079
4087	8		8	48.79	6	3.2338	0.0056	− 7	3	39.7	6	4.442	0.462	85.3	− 7	4413
4088	8.9		8	58.71	6	3.2179	0.0055	− 6	22	12.3	6	4.428	0.460	86.8	− 6	4571
4089	7.6		10	16.90	4	3.2121	0.0053	− 6	6	35.2	4	4.316	0.459	82.2	− 6	4575
4090	9		10	39.24	1	3.1522	0.0050	− 3	30	0.3	1	4.284	0.451	91.5	− 3	4085
4091	8.9	17	10	40.26	3	+ 3.1348	+ 0.0049	− 2	44	22.2	3	− 4.283	+ 0.448	92.5	− 2	4326
4092	8.9		10	44.06	4	3.2247	0.0054	− 6	39	8.2	4	4.278	0.461	85.5	− 6	4577
4093	8.9		10	58.81	6	3.1866	0.0051	− 4	59	53.4	6	4.256	0.456	86.5	− 4	4258
4094	9		12	18.86	1	3.1673	0.0050	− 4	9	4.7	1	4.142	0.453	89.5	− 4	4261
4095	9		12	22.29	3	3.1134	0.0047	− 1	47	54.3	2	4.138	0.446	86.5; 91.5	− 1	3310
4096	6.7	17	12	35.03	9	+ 3.1336	+ 0.0048	− 2	40	46.6	5	− 4.119	+ 0.449	87.7	− 2	4330
4097	8.9		12	36.90	8	3.1680	0.0050	− 4	10	46.7	7	4.117	0.454	87.0	− 4	4262
4098	9		12	53.56	3	3.2207	0.0052	− 6	27	56.8	3	4.093	0.462	90.8	− 6	4579
4099	7.8		13	5.06	10	3.1323	0.0047	− 2	37	19.4	5	4.077	0.449	88.3; 89.1	− 2	4332
4100	8		13	30.36	6	3.1621	0.0048	− 3	55	21.7	6	4.040	0.453	85.5	− 3	4087

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
4101	9	17	13	32.23	1	+ 3.2170	+ 0.0051	− 6	18	10.8	1	− 4.038	+ 0.461	95.5	− 6	4580
4102	8		13	34.22	4	3.2050	0.0051	− 5	47	8.6	4	4.035	0.460	82.0	− 5	4426
4103	8		13	54.77	5	3.1958	0.0050	− 5	23	5.5	5	4.006	0.458	85.9	− 5	4429
4104	9.8		14	14.61	3	3.2328	0.0052	− 6	58	56.4	3	3.977	0.464	84.6	− 6	4581
4105	8.9		14	17.95	10	3.1249	0.0047	− 2	17	54.2	9	3.972	0.448	88.2	− 2	4338
4106	9.8	17	14	48.84	4	+ 3.1800	+ 0.0049	− 4	41	48.2	4	− 3.928	+ 0.456	83.2	− 4	4266
4107	9.8		15	33.36	2	3.1136	0.0045	− 1	48	9.2	2	3.865	0.447	84.5	− 1	3318
4108	9.8		15	58.61	3	3.1524	0.0047	− 3	29	35.7	3	3.836	0.453	91.8	− 3	4091
4109	9.8		16	4.51	1	3.1784	0.0048	− 4	37	14.9	1	3.820	0.457	96.4	− 4	4269
4110	8.9		16	16.18	7	3.2151	0.0049	− 6	12	30.1	7	3.803	0.462	85.1	− 6	4587
4111	8.9	17	16	26.39	9	+ 3.1553	+ 0.0047	− 3	36	52.1	6	− 3.789	+ 0.454	85.4; 82.1	− 3	4092
4112	6.7		16	35.67	9	3.1243	0.0045	− 2	16	4.8	8	3.775	0.449	86.1	− 2	4343
4113	7		16	35.74	7	3.2333	0.0050	− 6	59	13.2	7	3.775	0.465	84.4	− 6	4589
4114	8.9		16	58.94	3	3.1947	0.0048	− 5	19	24.7	3	3.742	0.459	90.5	− 5	4436
4115	8		17	9.97	4	3.1413	0.0045	− 3	0	25.4	4	3.726	0.452	90.8	− 2	4346
4116	8.9	17	17	43.73	8	+ 3.1314	+ 0.0045	− 2	34	20.9	8	− 3.678	+ 0.450	87.0	− 2	4348
4117	8		17	52.42	4	3.1923	0.0047	− 5	12	46.0	4	3.665	0.459	86.2	− 5	4438
4118	8.9		19	20.85	2	3.1137	0.0043	− 1	47	56.9	2	3.538	0.448	84.5	− 1	3327
4119	7.8		19	32.55	12	3.2217	0.0047	− 6	28	23.7	12	3.522	0.464	86.5	− 6	4592
4120	5		20	15.84	8	3.1871	0.0046	− 4	58	45.2	8	3.460	0.459	85.4	− 4	4275
4121	8.9	17	20	59.35	2	+ 3.2022	+ 0.0046	− 5	37	49.2	2	− 3.397	+ 0.462	96.5	− 5	4447
4122	8.9		21	1.70	8	3.1250	0.0043	− 2	17	19.4	8	3.394	0.451	85.0	− 2	4357
4123	9		21	12.99	1	3.1696	0.0044	− 4	13	17.1	1	3.377	0.457	89.5	− 4	4282
4124	8		21	26.61	6	3.1419	0.0043	− 3	1	20.3	6	3.358	0.453	88.7	− 3	4105
4125	9		21	27.20	1	3.2130	0.0046	− 6	5	27.0	1	3.357	0.463	96.5	− 6	4597
4126	9	17	22	8.43	1	+ 3.1523	+ 0.0043	− 3	28	14.2	1	− 3.298	+ 0.455	91.5	− 3	4106
4127	8.9		22	18.21	2	3.2002	0.0045	− 5	32	20.2	2	3.284	0.462	82.0	− 5	4449
4128	7.8		23	22.33	4	3.2069	0.0044	− 5	49	12.1	4	3.191	0.463	82.2	− 5	4450
4129	8.9		23	29.88	3	3.2301	0.0045	− 6	48	56.2	3	3.180	0.466	84.5	− 6	4602
4130	8.9		23	50.93	6	3.1159	0.0041	− 1	53	22.1	6	3.150	0.450	84.2	− 1	3346
4131	7	17	23	59.22	12	+ 3.1710	+ 0.0042	− 4	16	27.9	12	− 3.138	+ 0.458	86.4	− 4	4290
4132	9.8		24	7.35	6	3.2109	0.0044	− 5	59	21.2	6	3.126	0.464	92.0	− 5	4453
4133	8.9		24	15.71	8	3.1932	0.0043	− 5	13	47.5	8	3.114	0.461	88.2	− 5	4454
4134	8.9		24	24.62	2	3.1323	0.0041	− 2	35	53.6	2	3.102	0.453	92.0	− 2	4375
4135	8.9		24	30.09	1	3.1606	0.0042	− 3	49	23.8	1	3.094	0.457	89.5	− 3	4116
4136	7	17	24	45.70	6	+ 3.1354	+ 0.0041	− 2	44	1.0	6	− 3.071	+ 0.453	84.8	− 2	4377
4137	8		25	11.75	4	3.1287	0.0040	− 2	26	34.5	4	3.034	0.452	86.3	− 2	4381
4138	8.9		25	13.84	2	3.1523	0.0041	− 3	27	48.4	2	3.031	0.456	91.5	− 3	4120
4139	9		26	6.51	1	3.1722	0.0041	− 4	19	3.2	1	2.955	0.459	89.5	− 4	4294
4140	9.8		26	10.35	3	3.2155	0.0048	− 6	10	44.3	3	2.949	0.465	93.2	− 6	4609
4141	8.9	17	26	40.17	10	+ 3.1478	+ 0.0040	− 3	15	58.7	9	− 2.906	+ 0.455	86.2; 85.6	− 3	4125
4142	7.6		27	5.48	5	3.2034	0.0042	− 5	39	16.9	5	2.870	0.464	83.9	− 5	4461
4143	9.8		27	8.60	6	3.1498	0.0040	− 3	20	56.4	2	2.865	0.456	88.8; 91.5	− 3	4127
4144	9		27	25.26	1	3.2189	0.0042	− 6	19	15.5	1	2.841	0.466	95.5	− 6	4611
4145	8.9		27	39.09	5	3.1164	0.0038	− 1	54	28.2	5	2.821	0.451	87.1	− 1	3356
4146	9	17	27	51.09	3	+ 3.2324	+ 0.0042	− 6	53	36.0	3	− 2.804	+ 0.468	87.6	− 6	4612
4147	7		27	51.47	4	3.1410	0.0039	− 2	58	13.2	4	2.803	0.455	86.5	− 2	4398
4148	9.8		27	59.99	5	3.1859	0.0040	− 4	54	15.8	5	2.791	0.461	84.1	− 4	4301
4149	9		28	38.70	2	3.2327	0.0041	− 6	54	15.2	1	2.735	0.468	87.5	− 6	4614
4150	8.9		29	4.87	4	3.2081	0.0040	− 5	51	6.5	4	2.697	0.465	92.0	− 5	4465

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		h	m	s		s	s	°	′	″		″	″		°
4151	8	17	29	14.56	9	+ 3.1374	+ 0.0038	— 2	48	42.3	7	— 2.683	+ 0.454	86.2; 87.9	— 2 4402
4152	7		29	16.73	9	3.2126	0.0040	— 6	2	28.4	4	2.680	0.465	86.8	— 6 4618
4153	8.9		29	28.32	9	3.2128	0.0040	— 6	2	58.1	6	2.664	0.465	87.4; 86.3	— 6 4620
4154	8		29	33.15	7	3.1675	0.0039	— 4	6	21.2	7	2.656	0.459	87.9	— 4 4308
4155	8		29	50.67	3	3.1558	0.0038	— 3	36	6.7	3	2.631	0.457	80.5	— 3 4132
4156	8.9	17	30	20.51	9	+ 3.1214	+ 0.0037	— 2	7	10.1	9	— 2.588	+ 0.453	87.4	— 2 4408
4157	8.9		30	43.73	4	3.1347	0.0037	— 2	41	29.8	4	2.554	0.455	85.0	— 2 4410
4158	7.8		31	3.72	4	3.1372	0.0037	— 2	48	5.6	2	2.525	0.455	88.2; 85.0	— 2 4413
4159	9.8		31	8.43	1	3.1404	0.0037	— 2	56	18.9	1	2.518	0.456	94.5	— 2 4414
4160	9		31	9.64	1	3.1673	0.0038	— 4	5	50.8	1	2.517	0.459	89.5	— 4 4315
4161	8.9	17	31	28.56	5	+ 3.1579	+ 0.0037	— 3	41	18.6	5	— 2.489	+ 0.458	89.3	— 3 4143
4162	8		32	39.28	6	3.1988	0.0038	— 5	26	35.8	6	2.387	0.464	87.0	— 5 4475
4163	9.8		33	7.59	1	3.2070	0.0038	— 5	47	26.3	1	2.346	0.466	96.5	— 5 4476
4164	9		33	21.34	6	3.2215	0.0038	— 6	24	34.5	6	2.326	0.468	90.3	— 6 4624
4165	8.9		33	22.88	6	3.1862	0.0037	— 4	54	1.2	3	2.324	0.463	89.1; 85.8	— 4 4324
4166	8	17	33	24.55	8	+ 3.1862	+ 0.0037	— 4	54	0.6	6	— 2.322	+ 0.463	85.8; 87.0	— 4 4325
4167	7.8		33	51.36	8	3.1529	0.0036	— 3	28	9.5	8	2.283	0.458	85.7	— 3 4150
4168	6.7		33	57.28	9	3.1207	0.0035	— 2	5	7.3	9	2.274	0.453	86.6	— 2 4425
4169	9		33	59.00	1	3.2359	0.0038	— 7	1	13.7	1	2.272	0.470	87.5	— 7 4477
4170	8		34	14.36	8	3.1373	0.0035	— 2	47	55.2	8	2.249	0.456	88.3	— 2 4427
4171	9	17	34	41.92	1	+ 3.2212	+ 0.0037	— 6	23	36.1	1	— 2.209	+ 0.468	87.6	— 6 4629
4172	9.8		34	43.67	7	3.2106	0.0036	— 5	56	28.9	7	2.207	0.466	86.1	— 5 4481
4173	9.8		34	51.12	1	3.1152	0.0034	— 1	50	55.4	1	2.196	0.452	98.5	— 1 3376
4174	9		35	20.80	1	3.2340	0.0036	— 6	56	1.0	1	2.153	0.470	87.6	— 6 4630
4175	9.8		35	38.25	10	3.1602	0.0035	— 3	46	45.2	9	2.128	0.459	86.4	— 3 4155
4176	9	17	35	48.27	4	+ 3.1704	+ 0.0035	— 4	13	14.0	4	— 2.113	+ 0.461	87.3	— 4 4330
4177	9.8		36	3.06	3	3.1819	0.0035	— 4	42	33.7	3	2.092	0.462	94.1	— 4 4331
4178	7.6		36	12.70	5	3.1838	0.0035	— 4	47	22.7	2	2.078	0.463	89.1; 81.5	— 4 4332
4179	8.7		36	14.04	7	3.1272	0.0034	— 2	21	48.7	6	2.076	0.454	84.1; 82.7	— 2 4433
4180	9		36	16.90	3	3.1596	0.0034	— 3	45	26.0	1	2.072	0.459	86.8	— 3 4157
4181	9	17	36	41.36	2	+ 3.2188	+ 0.0035	— 6	16	57.2	2	— 2.036	+ 0.468	87.5	— 6 4634
4182	7		36	55.88	5	3.1244	0.0033	— 2	14	22.9	2	2.015	0.453	83.5; 85.5	— 2 4436
4183	9.8		37	5.80	2	3.1403	0.0033	— 2	55	29.2	2	2.001	0.457	87.0	— 2 4437
4184	7.8		37	18.51	9	3.2362	0.0035	— 7	1	20.6	9	1.982	0.471	87.9	— 7 4487
4185	8.9		37	20.06	4	3.1456	0.0033	— 3	9	16.4	4	1.980	0.457	87.6	— 3 4159
4186	9.8	17	37	24.89	6	+ 3.1173	+ 0.0033	— 1	56	2.1	6	— 1.973	+ 0.453	89.2	— 1 3383
4187	8		37	25.46	5	3.1620	0.0034	— 3	51	12.5	4	1.972	0.460	84.3; 83.0	— 3 4160
4188	9.8		37	30.23	7	3.2172	0.0035	— 6	12	47.9	6	1.965	0.468	89.9	— 6 4638
4189	8		37	35.44	4	3.2092	0.0034	— 5	52	23.6	4	1.958	0.467	84.0	— 5 4488
4190	8.7		37	47.09	2	3.1130	0.0032	— 1	45	7.5	1	1.941	0.453	93.5	— 1 3384
4191	9	17	37	49.28	1	+ 3.2233	+ 0.0034	— 6	28	15.2	1	— 1.938	+ 0.469	87.6	— 6 4641
4192	8.9		38	28.08	3	3.1115	0.0032	— 1	41	11.0	2	1.881	0.453	93.2	— 1 3386
4193	9.8		38	35.24	4	3.1400	0.0032	— 2	54	30.0	4	1.871	0.457	82.0	— 2 4441
4194	7.8		38	56.98	6	3.1354	0.0032	— 2	42	35.4	6	1.839	0.456	87.0	— 2 4443
4195	8.9		39	15.09	6	3.1735	0.0033	— 4	20	45.5	6	1.813	0.461	85.5	— 4 4346
4196	8	17	39	15.65	6	+ 3.1527	+ 0.0032	— 3	27	12.8	5	— 1.812	+ 0.459	86.0; 84.7	— 3 4168
4197	8.9		40	15.69	5	3.1622	0.0032	— 3	51	31.3	5	1.725	0.460	86.7	— 3 4171
4198	7.8		40	16.15	8	3.1378	0.0031	— 2	48	42.0	7	1.724	0.457	85.8	— 2 4446
4199	8.9		40	21.60	1	3.1656	0.0032	— 4	0	21.2	1	1.716	0.461	86.5	— 3 4172
4200	9		40	22.26	1	3.1243	0.0031	— 2	14	3.3	1	1.716	0.455	92.5	— 2 4448

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		h	m	s		s	s	°	′	″		″	″		°
4201	8	17	40	22.37	9	+ 3.2316	+ 0.0033	− 6	48	57.9	8	− 1.715	+ 0.470	84.6	− 6 4647
4202	8.9		40	32.38	8	3.2161	0.0032	− 6	9	30.9	8	1.701	0.468	88.6	− 6 4648
4203	8.9		40	40.24	3	3.1112	0.0031	− 1	40	22.4	3	1.689	0.453	92.8	− 1 3391
4204	9.8		41	10.40	2	3.2247	0.0032	− 6	31	16.8	2	1.646	0.469	87.6	− 6 4651
4205	8.9		41	23.54	5	3.1562	0.0031	− 3	35	56.9	5	1.626	0.459	86.3	− 3 4177
4206	8	17	42	5.38	3	+ 3.1134	+ 0.0030	− 1	45	54.6	2	− 1.566	+ 0.453	84.2; 79.5	− 1 3398
4207	9		42	7.85	2	3.2282	0.0032	− 6	40	15.3	2	1.562	0.470	87.5	− 6 4658
4208	8		42	21.98	8	3.1225	0.0030	− 2	9	15.3	7	1.542	0.455	86.1; 85.2	− 2 4458
4209	9.8		42	39.68	5	3.1149	0.0029	− 1	49	40.1	5	1.516	0.454	93.3	− 1 3400
4210	8.9		43	18.38	7	3.1233	0.0029	− 2	11	24.3	6	1.460	0.455	85.5	− 2 4461
4211	9.8	17	43	44.92	7	+ 3.2302	+ 0.0031	− 6	45	5.9	6	− 1.421	+ 0.471	86.3; 85.4	− 6 4660
4212	9		44	1.64	1	3.1550	0.0029	− 3	32	54.6	1	1.396	0.460	91.5	− 3 4182
4213	8		44	21.82	6	3.1959	0.0029	− 5	17	37.4	6	1.367	0.466	84.7	− 5 4509
4214	9		44	32.13	2	3.2328	0.0030	− 6	51	36.4	1	1.352	0.471	84.0	− 6 4664
4215	9		44	43.56	1	3.1382	0.0028	− 2	49	27.3	1	1.336	0.457	91.5	− 2 4469
4216	9	17	44	47.63	2	+ 3.1691	+ 0.0029	− 4	9	1.2	2	− 1.330	+ 0.462	91.5	− 4 4360
4217	9		44	56.24	2	3.2326	0.0029	− 6	51	4.7	1	1.317	0.471	87.6	− 6 4666
4218	8		45	8.45	12	3.2321	0.0029	− 6	49	48.6	5	1.299	0.471	86.2; 87.9	− 6 4667
4219	8.9		45	16.02	12	3.2179	0.0029	− 6	13	35.2	10	1.288	0.469	87.2	− 6 4669
4220	8.9		45	24.35	6	3.1703	0.0028	− 4	11	56.0	4	1.276	0.462	85.7; 82.3	− 4 4363
4221	8.9	17	45	41.52	4	+ 3.1831	+ 0.0028	− 4	44	41.2	4	− 1.251	+ 0.464	87.2	− 4 4365
4222	8		46	2.22	10	3.1421	0.0028	− 2	59	33.6	9	1.221	0.458	87.5	− 2 4477
4223	8.9		46	9.98	7	3.1648	0.0028	− 3	57	39.8	7	1.210	0.461	85.2	− 3 4189
4224	8.9		46	10.82	1	3.1959	0.0028	− 5	17	20.6	1	1.209	0.466	96.4	− 5 4517
4225	7		46	12.57	5	3.2153	0.0028	− 6	6	46.4	2	1.206	0.469	85.3; 87.5	− 6 4672
4226	7	17	46	13.60	4	+ 3.1945	+ 0.0028	− 5	13	52.1	4	− 1.204	+ 0.466	82.7	− 5 4519
4227	8.7		46	18.04	6	3.1459	0.0027	− 3	9	12.1	6	1.198	0.458	83.8	− 3 4192
4228	8		46	28.27	3	3.1966	0.0028	− 5	19	13.6	2	1.183	0.466	91.2; 88.5	− 5 4521
4229	7.8		46	28.82	8	3.1548	0.0027	− 3	32	4.3	5	1.182	0.460	88.4; 82.7	− 3 4193
4230	9.8		46	31.88	2	3.1560	0.0027	− 3	35	11.3	2	1.178	0.460	91.5	− 3 4194
4231	8	17	46	44.33	13	+ 3.1243	+ 0.0027	− 2	13	40.3	12	− 1.160	+ 0.455	85.2	− 2 4480
4232	9.8		46	47.26	5	3.1403	0.0027	− 2	54	49.9	3	1.155	0.458	87.7	− 2 4481
4233	8		46	47.69	7	3.1322	0.0027	− 2	32	57.7	7	1.155	0.456	85.7	− 2 4482
4234	7		46	49.85	4	3.2102	0.0028	− 5	53	56.2	4	1.152	0.468	87.8	− 5 4523
4235	8.9		47	5.25	3	3.1201	0.0027	− 2	3	0.7	3	1.129	0.455	90.8	− 2 4485
4236	9	17	47	28.89	1	+ 3.1364	+ 0.0027	− 2	44	46.8	1	− 1.095	+ 0.457	88.6	− 2 4487
4237	8.9		47	38.11	3	3.1444	0.0027	− 3	5	25.3	3	1.081	0.458	83.9	− 3 4199
4238	8		47	55.35	3	3.1701	0.0027	− 4	11	9.5	3	1.056	0.462	81.8	− 4 4371
4239	7		48	11.15	3	3.1524	0.0026	− 3	25	55.0	3	1.033	0.460	83.2	− 3 4200
4240	8.9		49	36.43	5	3.1365	0.0025	− 2	45	4.8	3	0.909	0.457	88.1; 85.6	− 2 4500
4241	9	17	49	38.40	2	+ 3.1241	+ 0.0025	− 2	13	5.3	2	− 0.906	+ 0.456	89.5	− 2 4501
4242	8		49	41.07	9	3.2281	0.0026	− 6	39	5.4	6	0.902	0.471	86.8	− 6 4678
4243	8		49	53.51	3	3.1788	0.0026	− 4	33	23.1	3	0.884	0.464	83.5	− 4 4374
4244	8.9		49	56.22	7	3.1961	0.0026	− 5	17	42.7	7	0.880	0.466	86.3	− 5 4537
4245	8		50	11.79	12	3.1374	0.0025	− 2	47	22.7	9	0.858	0.458	86.8	− 2 4504
4246	9.8	17	50	15.89	8	+ 3.1241	+ 0.0025	− 2	13	9.2	8	− 0.852	+ 0.456	84.8	− 2 4505
4247	6		50	27.57	9	3.1672	0.0025	− 4	3	49.0	9	0.835	0.462	87.1	− 4 4376
4248	8.9		50	30.77	6	3.2284	0.0025	− 6	39	40.6	3	0.830	0.471	84.5; 86.2	− 6 4681
4249	8.9		50	38.13	7	3.2286	0.0025	− 6	40	18.8	1	0.819	0.471	86.2; 87.5	− 6 4682
4250*)	8.9		50	38.53	1	3.2286	0.0025	− 6	40	19.3	1	0.819	0.471	96.5	− 6 4682

*) Dupl. sq.

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	'	"		"	"		°
4251	9	17	51	40.48	1	+ 3.1887	+ 0.0024	— 2	50	41.9	1	— 0.728	+ 0.458	88.6	— 2 4510
4252	9		51	42.73	2	3.1481	0.0024	— 3	14	51.6	2	0.725	0.459	89.6	— 3 4210
4253	9		51	55.95	3	3.1222	0.0024	— 2	8	16.2	3	0.706	0.455	90.5	— 2 4511
4254	9		52	17.24	5	3.2181	0.0024	— 6	13	31.7	5	0.675	0.469	92.3	— 6 4685
4255	8		52	21.95	6	3.1989	0.0024	— 5	24	41.4	8	0.668	0.467	85.2	— 5 4542
4256	8.9	17	52	34.47	8	+ 3.2277	+ 0.0024	— 6	37	57.3	6	— 0.650	+ 0.471	86.2	— 6 4688
4257	9.8		52	34.52	3	3.1541	0.0024	— 3	30	7.0	3	0.650	0.460	84.8	— 3 4212
4258	8		52	41.47	4	3.1901	0.0024	— 5	2	8.2	4	0.640	0.465	83.8	— 5 4543
4259	9.8		52	45.23	6	3.1349	0.0023	— 2	40	48.7	6	0.634	0.457	91.2	— 2 4518
4260*)	9.8		52	49.88	2	3.2327	0.0024	— 6	50	38.6	2	0.627	0.471	87.6	— 6 4689
4261	9.8	17	52	50.22	1	+ 3.2327	+ 0.0024	— 6	50	39.0	1	— 0.627	+ 0.471	87.6	— 6 4689
4262	8		52	56.68	5	3.2152	0.0024	— 6	6	3.3	3	0.617	0.469	89.5; 85.8	— 6 4690
4263	6		53	14.52	3	3.1848	0.0023	— 4	48	30.8	2	0.591	0.464	85.2; 86.0	— 4 4384
4264	9		53	26.40	4	3.1329	0.0023	— 2	35	47.0	3	0.574	0.457	91.0	— 2 4523
4265	8.9		53	30.33	1	3.1988	0.0023	— 5	24	23.9	1	0.568	0.467	96.4	— 5 4550
4266	8.9?	17	53	42.45	1	+ 3.1296	+ 0.0023	— 2	27	15.4	1	— 0.551	+ 0.456	94.5	— 2 4525
4267	8.9		53	56.46	7	3.2272	0.0023	— 6	36	30.7	4	0.530	0.471	85.5; 84.0	— 6 4693
4268	5		54	8.73	6	3.1583	0.0022	— 3	40	53.5	6	0.512	0.461	85.2	— 3 4217
4269	8		54	14.34	6	3.1651	0.0023	— 3	58	20.6	6	0.504	0.462	85.2	— 3 4219
4270	9.8		54	18.07	5	3.1260	0.0022	— 2	17	55.7	5	0.499	0.456	85.3	— 2 4528
4271	9.8	17	54	36.21	4	+ 3.2151	+ 0.0022	— 6	5	44.6	3	— 0.472	+ 0.469	89.8; 87.5	— 6 4694
4272	9		54	38.03	3	3.2157	0.0022	— 6	7	25.6	1	0.470	0.469	90.5; 96.5	— 6 4695
4273	7		54	41.07	8	3.1324	0.0022	— 2	34	16.5	5	0.465	0.457	86.3; 84.0	— 2 4529
4274	9		54	44.39	2	3.1197	0.0022	— 2	1	43.4	2	0.460	0.455	87.6	— 2 4530
4275	9		55	43.96	1	3.1614	0.0022	— 3	48	47.1	1	0.373	0.461	89.5	— 3 4223
4276	8	17	55	57.76	3	+ 3.2065	+ 0.0021	— 5	43	54.9	3	— 0.353	+ 0.468	80.8	— 5 4559
4277	7		56	11.07	11	3.1460	0.0021	— 3	9	21.9	11	0.334	0.459	86.5	— 3 4225
4278	7		56	22.30	5	3.1977	0.0021	— 5	21	22.1	5	0.318	0.466	87.1	— 5 4560
4279	9		56	30.55	1	3.2343	0.0021	— 6	54	33.6	1	0.306	0.472	87.6	— 6 4698
4280	9.8		56	43.01	6	3.1242	0.0021	— 2	13	20.8	6	0.287	0.456	82.4	— 2 4535
4281	9.8	17	56	44.01	10	+ 3.1333	+ 0.0021	— 2	36	37.1	10	— 0.286	+ 0.457	88.8	— 2 4537
4282	9		56	44.74	2	3.1749	0.0021	— 4	23	18.0	2	0.285	0.463	89.6	— 4 4388
4283	8.9		57	4.16	7	3.1595	0.0021	— 3	43	42.6	7	0.256	0.461	86.2	— 3 4231
4284	9.8		57	33.77	2	3.1560	0.0020	— 3	34	52.5	2	0.213	0.460	91.6	— 3 4232
4285	9.8		57	34.32	6	3.2221	0.0020	— 6	23	33.2	6	0.212	0.470	90.8	— 6 4700
4286	9	17	57	35.87	1	+ 3.2117	+ 0.0020	— 5	57	11.9	1	— 0.210	+ 0.468	95.5	— 5 4564
4287	9.8		58	32.08	6	3.2213	0.0020	— 6	21	22.2	4	0.128	0.470	88.5; 86.8	— 6 4706
4288	9.8		58	34.37	2	3.1181	0.0020	— 1	44	42.8	2	0.125	0.454	87.0	— 1 3440
4289	9.8		58	46.14	4	3.1430	0.0020	— 3	1	38.4	4	0.108	0.458	89.0	— 3 4233
4290	8		59	18.03	3	3.1184	0.0019	— 1	58	21.4	3	0.061	0.455	86.9	— 1 3444
4291	8.9	17	59	21.20	3	+ 3.1788	+ 0.0019	— 4	33	9.8	3	— 0.057	+ 0.464	89.8	— 4 4394
4292	6		59	51.90	6	3.1836	0.0019	— 4	45	32.5	6	— 0.012	0.464	82.8	— 4 4395
4293	9		59	53.32	3	3.2301	0.0018	— 6	43	46.8	2	— 0.010	0.471	87.5	— 6 4708
4294	9	18	0	7.75	4	3.2299	0.0018	— 6	43	16.6	2	+ 0.011	0.471	85.8; 84.0	— 6 4709
4295	7		0	37.66	9	3.1482	0.0018	— 3	14	49.7	9	+ 0.055	0.459	83.3	— 3 4237
4296	8.9	18	0	43.09	4	+ 3.1223	+ 0.0018	— 2	8	19.2	4	+ 0.063	+ 0.455	81.3	— 2 4549
4297	8		0	52.39	4	3.1139	0.0018	— 1	46	54.9	4	0.076	0.454	86.7	— 1 3451
4298	8.9		1	14.78	5	3.1314	0.0018	— 2	31	43.1	5	0.109	0.457	84.7	— 2 4552
4299	8.9		1	39.82	1	3.2397	0.0017	— 7	8	9.5	1	0.146	0.472	87.6	— 7 4564
4300	9		1	54.43	1	3.1202	0.0018	— 2	2	59.2	1	0.167	0.455	93.5	— 2 4556

*) Dupl. pr.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
4301	8	18	1	58.00	4	+3.1793	+0.0017	−4	34	31.8	2	+0.172	+0.464	84.0; 81.5	−4	4403
4302	8.9		2	8.86	5	3.1684	0.0017	−4	6	40.4	4	0.188	0.462	83.9; 82.0	−4	4404
4303	8.9		2	10.00	6	3.2288	0.0017	−6	40	39.5	6	0.190	0.471	80.8	−6	4717
4304	8		2	15.64	3	3.1765	0.0017	−4	27	21.8	2	0.198	0.463	85.5; 87.0	−4	4405
4305	7.6		2	22.09	8	3.1406	0.0017	−2	55	27.3	5	0.207	0.458	83.0; 84.1	−2	4558
4306	8.7	18	2	25.93	9	+3.1660	+0.0017	−4	0	26.2	4	+0.213	+0.462	83.4	−4	4406
4307	8.9		3	0.74	7	3.1424	0.0017	−2	59	58.2	4	0.264	0.458	84.0; 84.8	−3	4242
4308	8		3	11.68	4	3.2051	0.0016	−5	40	12.7	4	0.280	0.467	81.5	−5	4582
4309	9		3	30.75	1	3.1640	0.0016	−3	55	16.8	1	0.307	0.461	89.5	−3	4244
4310	8.7		4	25.01	3	3.1422	0.0016	−2	59	31.1	3	0.386	0.458	79.2	−2	4564
4311	7.6	18	5	3.48	6	+3.1947	+0.0015	−5	13	45.1	6	+0.443	+0.466	85.0	−5	4586
4312	7		5	24.58	7	3.1366	0.0015	−2	45	2.3	6	0.473	0.457	83.0; 83.9	−2	4566
4313	7.8		5	30.78	3	3.2046	0.0014	−5	38	57.7	3	0.482	0.467	81.8	−5	4589
4314	8.9		6	17.45	6	3.1544	0.0015	−3	30	48.2	4	0.550	0.460	83.9; 85.8	−3	4252
4315	8		6	37.88	2	3.1844	0.0014	−4	47	33.1	2	0.580	0.466	78.1	−4	4414
4316	9	18	6	46.11	2	+3.2319	+0.0013	−6	48	28.9	2	+0.592	+0.471	87.5	−6	4726
4317	7.6		6	49.86	5	3.1668	0.0014	−4	2	30.7	5	0.598	0.461	82.3	−4	4415
4318	8		7	0.14	4	3.1526	0.0014	−3	26	11.4	3	0.613	0.459	79.3	−3	4254
4319	7		7	2.38	4	3.1131	0.0015	−1	44	56.0	4	0.616	0.454	79.0	−1	3461
4320	8		8	5.41	5	3.2035	0.0013	−5	36	29.6	5	0.708	0.467	83.7	−5	4602
4321	9	18	8	10.90	1	+3.1344	+0.0014	−2	39	30.7	1	+0.716	+0.457	93.5	−2	4577
4322	9.8		8	14.85	2	3.1951	0.0013	−5	14	55.8	2	0.722	0.465	91.5	−5	4604
4323	8.7		8	20.55	6	3.1339	0.0013	−2	38	11.2	4	0.730	0.456	81.9; 80.0	−2	4578
4324*)	9		8	23.19	1	3.1826	0.0013	−4	43	15.6	1	0.734	0.464	82.5	−4	4424
4325	9		8	31.83	2	3.1317	0.0013	−2	32	36.3	2	0.746	0.456	86.0	−2	4579
4326	7.8	18	9	10.30	1	+3.2012	+0.0012	−5	30	37.0	1	+0.802	+0.466	79.6	−5	4608
4327	7		9	24.20	1	3.1516	0.0012	−3	23	40.7	1	0.822	0.459	91.5	−3	4257
4328	7		9	39.08	1	3.1577	0.0012	−3	39	19.4	1	0.844	0.460	77.6	−3	4259
4329	8		10	11.57	2	3.1675	0.0012	−4	4	35.4	2	0.892	0.461	92.5	−4	4430
4330	6		10	35.72	3	3.1432	0.0012	−3	2	18.6	3	0.927	0.458	83.2	−3	4263
4331	8.9	18	10	40.53	3	+3.2424	+0.0010	−7	15	33.0	2	+0.934	+0.472	80.2	−7	4580
4332	9.8		11	3.73	1	3.2022	0.0011	−5	33	15.8	1	0.968	0.466	79.5	−5	4618
4333	8		11	46.82	4	3.1207	0.0012	−2	4	37.3	4	1.030	0.454	82.6	−2	4588
4334	8		12	16.73	2	3.1181	0.0011	−1	57	47.3	2	1.074	0.454	79.6	−1	3470
4335	7		12	38.87	2	3.1692	0.0010	−4	9	6.9	2	1.106	0.461	86.1	−4	4438
4336	8	18	12	43.30	2	+3.1473	+0.0011	−3	12	53.1	2	+1.113	+0.458	79.1	−3	4267
4337	9.8		12	53.88	2	3.2017	0.0009	−5	32	2.2	2	1.128	0.466	96.5	−5	4624
4338	8		15	5.04	1	3.1460	0.0009	−3	9	33.5	1	1.319	0.457	78.6	−3	4272
4339	8		15	17.53	2	3.1640	0.0009	−3	55	47.0	2	1.337	0.460	86.6	−3	4273
4340	9		15	44.19	1	3.1968	0.0007	−5	19	49.7	1	1.376	0.464	91.6	−5	4641
4341	9	18	15	54.98	5	+3.1950	+0.0007	−5	15	19.2	3	+1.392	+0.464	93.5	−5	4642
4342	9.8		16	1.89	2	3.1922	0.0007	−5	8	12.8	1	1.402	0.464	84.6; 91.5	−5	4643
4343	8.9		16	59.07	6	3.1940	0.0007	−5	12	42.1	2	1.485	0.464	90.9; 87.1	−5	4646
4344	8		17	8.81	3	3.2197	0.0006	−6	18	32.7	3	1.499	0.468	84.6	−6	4751
4345	9.8		17	18.20	2	3.1311	0.0008	−2	31	22.6	1	1.513	0.455	93.5	−2	4609
4346	8	18	17	43.81	2	+3.1313	+0.0008	−2	31	56.4	1	+1.550	+0.455	93.5	−2	4613
4347	6.7		17	44.93	3	3.1572	0.0007	−3	38	34.3	3	1.552	0.458	80.9	−3	4277
4348	8		17	57.18	6	3.1691	0.0007	−4	9	2.4	5	1.569	0.460	87.1; 88.8	−4	4459
4349	9.8		18	8.45	2	3.1903	0.0006	−5	8	26.1	2	1.586	0.463	84.6	−5	4652
4350	6.7		18	12.36	4	3.2392	0.0005	−7	8	18.7	4	1.591	0.470	85.1	−7	4598

*) Dupl. pr.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
4351	8	18	18	16.04	2	+ 3.2281	+ 0.0005	− 6	39	55.8	2	+ 1.597	+ 0.469	83.6	− 6	4755
4352	9.8		18	18.12	1	3.1449	0.0007	− 3	7	4.6	1	1.600	0.457	86.6	− 3	4279
4353	8		18	28.92	5	3.1174	0.0007	− 1	56	4.1	5	1.615	0.452	80.4	− 1	3485
4354	9		19	24.51	1	3.1719	0.0006	− 4	16	26.7	1	1.696	0.460	86.6	− 4	4464
4355	8.9		20	1.04	4	3.2405	0.0003	− 7	11	41.3	4	1.749	0.470	87.1	− 7	4603
4356	8.9	18	20	24.15	3	+ 3.2238	+ 0.0003	− 6	29	25.3	3	+ 1.788	+ 0.468	81.9	− 6	4762
4357	8		20	30.02	3	3.2195	0.0004	− 6	18	28.4	2	1.791	0.467	84.6; 78.6	− 6	4763
4358	8.9		21	18.06	4	3.1655	0.0005	− 4	0	13.0	3	1.861	0.459	84.8; 82.6	− 4	4470
4359	9.8		21	31.71	4	3.1152	0.0006	− 1	50	41.5	4	1.881	0.452	86.8	− 1	3496
4360	8.9		21	40.79	5	3.2175	0.0003	− 6	13	26.3	4	1.894	0.466	87.7; 89.8	− 6	4769
4361	9	18	21	59.08	2	+ 3.2094	+ 0.0003	− 5	52	55.6	2	+ 1.921	+ 0.465	96.5	− 5	4665
4362	8.9		22	6.57	6	3.1640	0.0004	− 3	56	22.5	5	1.932	0.458	87.1; 88.0	− 3	4288
4363	9		22	46.51	6	3.1914	0.0003	− 5	6	51.8	6	1.990	0.462	89.4	− 5	4667
4364	9		22	48.89	4	3.1290	0.0005	− 2	26	21.1	4	1.993	0.458	93.0	− 2	4637
4365	9.8		22	58.88	6	3.1385	0.0004	− 2	50	54.6	5	2.008	0.454	83.0; 84.2	− 2	4638
4366	6	18	23	26.30	9	+ 3.1202	+ 0.0005	− 2	3	43.2	5	+ 2.047	+ 0.452	85.5; 84.4	− 2	4641
4367	8		23	34.97	7	3.1668	0.0003	− 4	3	51.0	7	2.060	0.458	85.2	− 4	4478
4368	8		23	37.16	6	3.1162	0.0004	− 1	53	24.5	6	2.063	0.451	86.1	− 1	3500
4369	9.8		23	38.98	1	3.1990	0.0002	− 5	26	23.3	1	2.066	0.463	91.6	− 5	4673
4370	7		23	49.48	4	3.2075	0.0002	− 5	48	8.5	3	2.081	0.464	87.5; 84.6	− 5	4675
4371	8.9	18	24	15.54	5	+ 3.1180	+ 0.0004	− 1	57	57.6	3	+ 2.119	+ 0.451	82.0; 84.9	− 1	3501
4372	9.8		24	31.18	4	3.1908	0.0002	− 5	5	34.0	4	2.141	0.462	84.8	− 5	4677
4373	8.7		24	43.68	4	3.2090	0.0001	− 5	52	15.3	2	2.160	0.464	88.0	− 5	4678
4374	7.8		25	30.33	6	3.1304	0.0003	− 2	30	7.1	6	2.227	0.458	84.9	− 2	4647
4375	8.9		25	32.21	5	3.2166	0.0000	− 6	11	54.7	5	2.230	0.465	87.2	− 6	4783
4376	9	18	25	40.60	1	+ 3.1580	+ 0.0002	− 3	41	13.8	1	+ 2.242	+ 0.457	90.5	− 3	4299
4377	7		26	43.75	5	3.1943	0.0000	− 5	14	56.7	5	2.334	0.462	87.0	− 5	4686
4378	9.8		26	54.55	2	3.2151	0.0000	− 6	8	12.4	2	2.349	0.464	96.6	− 6	4789
4379	6.7		26	57.36	5	3.2119	− 0.0001	− 5	59	55.7	5	2.353	0.464	87.6	− 6	4791
4380	9		26	59.08	2	3.1167	+ 0.0002	− 1	54	55.2	2	2.356	0.450	88.6	− 1	3509
4381	9.8	18	27	18.41	4	+ 3.1862	0.0000	− 4	54	13.4	2	+ 2.384	+ 0.460	93.0	− 4	4493
4382	8.9		27	39.66	6	3.1398	+ 0.0001	− 2	54	36.8	6	2.414	0.454	87.4	− 2	4653
4383	9.8		27	58.49	7	3.1862	0.0000	− 4	54	14.1	5	2.434	0.460	88.4; 86.6	− 4	4497
4384	9.8		28	7.40	1	3.1837	0.0000	− 4	47	58.0	1	2.455	0.460	78.6	− 4	4498
4385	9.8		28	30.19	1	3.1188	+ 0.0002	− 2	0	16.4	1	2.488	0.450	86.6	− 2	4658
4386	9	18	28	50.81	1	+ 3.2409	− 0.0003	− 7	14	36.7	1	+ 2.517	+ 0.468	87.6	− 7	4628
4387	9		28	54.23	3	3.2319	− 0.0003	− 6	51	40.6	3	2.522	0.466	89.6	− 6	4800
4388	9		28	55.09	1	3.2222	− 0.0003	− 6	26	55.0	1	2.524	0.465	87.6	− 6	4801
4389	9		29	24.88	2	3.1283	+ 0.0001	− 2	24	56.9	1	2.567	0.451	90.6	− 2	4661
4390	8		29	40.06	10	3.2313	− 0.0003	− 6	50	14.3	6	2.589	0.466	89.3; 87.9	− 6	4805
4391	9.8	18	29	48.91	6	+ 3.1295	0.0000	− 2	28	12.8	5	+ 2.601	+ 0.451	91.2; 92.2	− 2	4664
4392	8.9		30	1.51	2	3.1736	− 0.0001	− 4	22	2.8	2	2.620	0.458	85.1	− 4	4509
4393	9.8		30	2.81	3	3.1822	− 0.0002	− 4	44	25.2	2	2.622	0.459	92.6	− 4	4510
4394	8		30	5.45	8	3.1805	− 0.0002	− 4	39	55.0	5	2.625	0.459	86.4; 85.6	− 4	4511
4395	9.8		30	15.32	3	3.1323	0.0000	− 2	35	34.5	3	2.640	0.452	90.6	− 2	4667
4396	9.8	18	30	15.66	2	+ 3.1458	− 0.0001	− 3	10	29.3	2	+ 2.640	+ 0.454	92.6	− 3	4316
4397	9.8		30	15.70	3	3.2238	− 0.0004	− 6	31	9.5	3	2.641	0.464	86.9	− 6	4809
4398	9		30	22.96	2	3.1198	0.0000	− 2	3	7.7	2	2.651	0.450	88.6	− 2	4669
4399	9.8		30	39.56	6	3.1561	− 0.0001	− 3	36	57.1	5	2.675	0.455	89.2	− 3	4319
4400	8		30	40.90	11	3.1816	− 0.0002	− 4	42	53.2	4	2.677	0.459	87.1; 86.0	− 4	4514

Nr.	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
4401	9	18	30	57.56	3	+ 3.2162	− 0.0004	− 6	11	50.1	3	+ 2.701	+ 0.464	96.2 :	− 6	4812
4402	8.7		31	12.69	6	3.1422	0.0001	− 3	1	11.6	6	2.722	0.453	85.4	− 3	4325
4403	8.9		31	23.21	11	3.2326	0.0005	− 6	53	52.9	5	2.738	0.466	88.2; 89.4	− 6	4816
4404	7		31	23.22	4	3.1861	0.0003	− 4	54	32.1	4	2.738	0.459	84.6	− 4	4518
4405	8.9		31	31.92	13	3.2325	0.0005	− 6	53	39.6	7	2.750	0.465	87.0; 84.7	− 6	4817
4406	7	18	31	40.87	7	+ 3.1346	− 0.0001	− 2	41	27.5	6	+ 2.763	+ 0.452	83.7; 84.7	− 2	4678
4407	9.8		31	44.23	1	3.1167	0.0000	− 1	55	4.6	1	2.768	0.449	78.6	− 1	3526
4408	7		32	5.93	6	3.1486	0.0002	− 3	17	50.8	5	2.800	0.454	83.6	− 3	4331
4409	8.9		32	7.94	6	3.1590	0.0002	− 3	44	41.9	4	2.802	0.455	82.7; 80.1	− 3	4332
4410	8.9		32	12.42	5	3.2136	0.0004	− 6	5	35.9	5	2.809	0.468	89.4	− 6	4823
4411	9	18	32	19.44	5	+ 3.1601	− 0.0002	− 3	47	39.4	3	+ 2.819	+ 0.455	86.6; 89.6	− 3	4334
4412	9		32	22.16	2	3.1218	0.0001	− 2	8	17.3	2	2.828	0.449	88.6	− 2	4683
4413	9.8		32	38.58	3	3.2071	0.0005	− 5	48	58.0	2	2.847	0.462	91.2; 88.5	− 5	4714
4414	8		32	59.35	8	3.1198	0.0001	− 2	3	21.1	6	2.876	0.449	85.7; 84.7	− 2	4686
4415	9.8		32	59.68	2	3.1476	0.0002	− 3	15	26.0	2	2.877	0.453	89.6	− 3	4337
4416	9	18	33	5.72	1	+ 3.1359	− 0.0002	− 2	44	55.6	1	+ 2.886	+ 0.451	92.6	− 2	4687
4417	8.9		33	19.77	4	3.1768	0.0004	− 4	30	51.3	3	2.906	0.457	87.6; 90.9	− 4	4536
4418	8.9		33	27.97	2	3.1468	0.0003	− 3	13	21.6	1	2.918	0.453	89.6	− 3	4338
4419	9.8		33	41.70	3	3.2085	0.0005	− 5	52	43.6	2	2.938	0.462	90.9; 88.0	− 5	4717
4420	9		33	44.30	1	3.1222	0.0002	− 2	9	37.2	1	2.941	0.449	92.6	− 2	4690
4421	9	18	33	52.26	2	+ 3.2021	− 0.0005	− 5	36	21.9	2	+ 2.953	+ 0.461	91.5	− 5	4718
4422	8		34	7.05	5	3.2070	0.0006	− 5	48	58.2	3	2.974	0.461	86.2; 84.9	− 5	4719
4423	8		34	26.04	8	3.1788	0.0005	− 4	36	20.9	7	3.002	0.457	86.4	− 4	4547
4424	9.8		34	28.50	2	3.1447	0.0003	− 3	8	0.1	2	3.005	0.452	86.6	− 3	4347
4425	9.8		34	36.29	2	3.1175	0.0002	− 1	57	25.0	1	3.016	0.448	78.6	− 1	3535
4426	8.9	18	34	54.25	8	+ 3.1630	− 0.0004	− 3	55	36.3	2	+ 3.042	+ 0.455	89.6; 91.1	− 3	4351
4427	8.9		34	57.85	3	3.1470	0.0004	− 3	14	0.8	2	3.048	0.452	91.2; 93.6	− 3	4352
4428	9		35	0.33	1	3.1623	0.0004	− 3	53	46.5	1	3.051	0.454	86.6	− 3	4353
4429	8.9		35	2.39	5	3.1170	0.0002	− 1	56	16.5	4	3.054	0.448	81.2	− 1	3539
4430	9.8		35	3.38	2	3.1320	0.0003	− 2	35	0.0	2	3.056	0.450	93.5	− 2	4701
4431	9	18	35	9.39	5	+ 3.2385	− 0.0008	− 7	10	4.6	4	+ 3.064	+ 0.465	88.8	− 7	4659
4432	8.9		35	13.03	2	3.2435	0.0008	− 7	22	57.0	1	3.069	0.466	84.1	− 7	4661
4433	7.6		35	16.32	5	3.1469	0.0004	− 3	13	45.9	1	3.074	0.452	86.0; 87.6	− 3	4354
4434	7		35	48.54	2	3.2450	0.0008	− 7	27	2.7	1	3.121	0.466	84.1; 90.5	− 7	4664
4435	9		35	50.00	2	3.1766	0.0005	− 4	30	57.5	2	3.123	0.456	91.6	− 4	4556
4436	9	18	35	53.15	2	+ 3.2326	− 0.0008	− 6	55	4.6	1	+ 3.127	0.464	87.6	− 6	4843
4437	9		36	1.22	1	3.1783	0.0006	− 4	55	20.8	1	3.139	+ 0.458	91.6	− 4	4557
4438	6.7		36	7.47	7	3.2388	0.0008	− 7	11	14.8	2	3.148	0.465	85.9; 78.6	− 7	4670
4439	8.9		36	15.63	3	3.2362	0.0008	− 7	4	26.9	2	3.160	0.465	88.2; 87.0	− 7	4673
4440	9.8		36	28.55	3	3.1862	0.0006	− 4	55	46.0	2	3.178	0.457	82.6; 78.1	− 4	4561
4441	9.8	18	36	41.42	8	+ 3.2366	− 0.0009	− 7	5	40.5	4	+ 3.197	+ 0.465	87.2; 89.6	− 7	4677
4442	9.8		36	42.17	3	3.2333	0.0009	− 6	57	14.0	2	3.198	0.464	85.2; 84.1	− 6	4852
4443	8.9		36	42.17	2	3.1202	0.0003	− 2	4	34.4	2	3.198	0.448	85.0	− 2	4717
4444	8		36	59.37	1	3.2067	0.0008	− 5	48	45.7	1	3.223	0.460	96.5	− 5	4736
4445	8		37	0.30	6	3.1486	0.0005	− 3	18	21.8	6	3.224	0.452	85.4	− 3	4360
4446	8	18	37	4.45	14	+ 3.1129	− 0.0003	− 1	45	44.7	5	+ 3.230	+ 0.447	84.4; 83.4	− 1	3549
4447	8.9		37	6.21	4	3.2013	0.0007	− 5	35	0.8	3	3.232	0.459	88.1; 91.5	− 5	4738
4448	7		37	23.10	6	3.2328	0.0009	− 6	56	3.3	3	3.257	0.464	86.3	− 6	4859
4449	7.8		37	24.06	17	3.1110	0.0003	− 1	40	37.6	5	3.258	0.446	84.9; 87.2	− 1	3551
4450	9.8		37	28.62	1	3.2152	0.0008	− 6	10	48.6	1	3.265	0.461	95.5	− 6	4860

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		h	m	s		s	s	°	'	"		"	"		°
4451	8.9	18	37	36.59	6	+ 3.1784	− 0.0007	− 4	35	41.8	5	+ 3.276	+ 0.456	86.4; 87.2	− 4 4565
4452	9.8		37	42.20	12	3.1114	0.0004	− 1	41	53.1	5	3.284	0.446	84.9	− 1 3552
4453	8		37	42.98	3	3.1228	0.0004	− 2	11	20.3	1	3.285	0.448	86.6; 89.5	− 2 4720
4454	8		37	59.52	19	3.1109	0.0004	− 1	40	26.7	5	3.309	0.446	84.8; 83.8	− 1 3553
4455	8.9		38	6.46	2	3.1324	0.0005	− 2	36	35.6	2	3.319	0.449	93.5	− 2 4726
4456	8.9	18	38	13.37	7	+ 3.1477	− 0.0006	− 3	16	22.0	6	+ 3.329	+ 0.451	87.3	− 3 4367
4457	7		38	13.71	5	3.2262	0.0009	− 6	39	24.5	4	3.330	0.463	85.6; 82.8	− 6 4869
4458	8.9		38	17.57	2	3.2286	0.0009	− 6	45	28.1	1	3.335	0.463	88.1; 96.5	− 6 4871
4459	8		38	21.48	2	3.1948	0.0008	− 5	18	31.4	2	3.341	0.458	84.6	− 5 4744
4460	9.8		38	22.79	2	3.1163	0.0004	− 1	54	33.7	2	3.343	0.447	80.1	− 1 3555
4461	9.8	18	38	23.25	2	+ 3.2216	− 0.0009	− 6	27	39.3	1	+ 3.348	+ 0.462	96.6	− 6 4872
4462	9.8		38	30.42	7	3.1581	0.0006	− 3	43	27.7	7	3.354	0.453	86.3	− 3 4369
4463	8.9		38	40.95	2	3.2021	0.0008	− 5	37	24.1	2	3.369	0.459	84.6	− 5 4745
4464	8.9		39	6.99	12	3.1812	0.0008	− 4	43	20.2	9	3.406	0.456	86.7	− 4 4575
4465	9.8		39	8.81	1	3.2156	0.0009	− 6	12	15.1	1	3.409	0.461	86.6	− 6 4879
4466	8.9	18	39	8.86	4	+ 3.1495	− 0.0006	− 3	21	12.1	4	+ 3.409	+ 0.451	85.3	− 3 4373
4467	9.8		39	10.53	8	3.1830	0.0008	− 4	48	0.3	4	3.411	0.456	92.8	− 4 4577
4468	8		39	35.74	4	3.2195	0.0010	− 6	22	37.7	3	3.447	0.461	92.1; 90.6	− 6 4885
4469	8.9		39	37.35	1	3.2210	0.0010	− 6	26	17.0	1	3.450	0.461	96.7	− 6 4886
4470	9.8		39	45.17	1	3.2169	0.0010	− 6	15	55.0	1	3.461	0.461	95.5	− 6 4888
4471	8	18	40	18.97	8	+ 3.2297	− 0.0011	− 6	49	1.2	3	+ 3.510	+ 0.462	88.3	− 6 4893
4472	9		40	34.53	2	3.2218	0.0011	− 6	28	44.6	1	3.532	0.461	87.6	− 6 4895
4473	6.7		40	43.00	2	3.2112	0.0010	− 6	1	30.6	1	3.544	0.460	88.0	− 6 4897
4474	5		40	48.45	3	3.1846	0.0009	− 4	52	27.3	3	3.552	0.456	79.6	− 4 4582
4475	9		41	2.95	1	3.1159	0.0006	− 1	53	35.8	1	3.573	0.446	88.6	− 1 3563
4476	6.7	18	41	4.49	3	+ 3.2067	− 0.0010	− 5	49	56.8	3	+ 3.575	+ 0.459	84.6	− 5 4760
4477	9		41	8.26	2	3.2207	0.0011	− 6	26	4.9	1	3.580	0.461	87.6	− 6 4903
4478	8.9		41	9.37	7	3.1588	0.0008	− 3	45	36.0	6	3.582	0.452	87.8; 88.9	− 3 4380
4479	9.8		41	13.10	2	3.2347	0.0012	− 7	2	6.0	2	3.587	0.462	90.6	− 7 4710
4480	9		41	17.32	2	3.2190	0.0011	− 6	21	47.1	1	3.593	0.460	87.6	− 6 4906
4481	9	18	41	19.77	1	+ 3.2379	− 0.0012	− 7	10	25.0	1	+ 3.597	+ 0.463	90.6	− 7 4713
4482	9.8		41	59.45	2	3.1888	0.0010	− 5	3	52.4	2	3.654	0.456	84.1	− 5 4768
4483	9.8		42	6.81	3	3.2244	0.0012	− 6	35	48.0	2	3.664	0.461	88.6	− 6 4910
4484	7		42	13.93	9	3.2137	0.0011	− 6	8	13.4	8	3.674	0.459	84.9; 85.7	− 6 4913
4485	8.9		42	20.36	5	3.1467	0.0008	− 3	14	19.8	5	3.684	0.450	81.2	− 3 4382
4486	9	18	42	22.88	2	+ 3.2242	− 0.0012	− 6	35	36.6	1	+ 3.687	+ 0.461	87.6	− 6 4915
4487	9		42	40.13	2	3.1328	0.0008	− 2	38	6.2	2	3.712	0.447	93.5	− 2 4751
4488	9.8		42	40.78	1	3.2327	0.0013	− 6	57	37.5	1	3.713	0.462	80.5	− 6 4917
4489	7		43	15.62	2	3.2115	0.0012	− 6	2	51.7	2	3.763	0.458	89.6	− 6 4922
4490	9.8		43	38.95	2	3.2232	0.0013	− 6	33	15.8	2	3.796	0.460	86.6	− 6 4925
4491	8.9	18	43	40.38	6	+ 3.1892	− 0.0011	− 5	5	20.7	4	+ 3.798	+ 0.455	87.4; 85.8	− 5 4775
4492	7		43	49.95	6	3.1585	0.0010	− 3	45	25.5	6	3.812	0.451	85.4	− 3 4388
4493	9.8		43	57.06	5	3.2337	0.0014	− 7	0	40.0	4	3.822	0.461	85.4; 86.6	− 7 4735
4494	9.8		44	1.14	1	3.2369	0.0014	− 7	8	56.3	1	3.828	0.462	90.6	− 7 4736
4495	9.8?		44	7.68	1	3.1992	0.0012	− 5	31	18.7	1	3.838	0.456	91.5	− 5 4777
4496	9	18	44	7.99	3	+ 3.1246	− 0.0008	− 2	16	44.0	3	+ 3.838	+ 0.446	88.6	− 2 4757
4497	8.9		44	11.35	7	3.1894	0.0012	− 5	5	53.1	3	3.843	0.455	86.2	− 5 4778
4498	9		44	12.97	1	3.1312	0.0008	− 2	34	11.7	1	3.845	0.447	92.6	− 2 4758
4499	9		44	28.47	4	3.1173	0.0008	− 1	57	30.2	4	3.867	0.443	86.1	− 1 3574
4500	8		44	41.75	3	3.2199	0.0014	− 6	25	5.6	2	3.886	0.459	91.3; 88.6	− 6 4929

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
4501	7.8	18 44 47.93	9	+ 3.1502	— 0.0010	— 3 23 55.2	7	+ 3.895	+ 0.449	83.1; 82.0	— 3 4390
4502	9	44 50.36	2	3.2216	0.0014	— 6 29 33.1	2	3.898	0.459	92.1	— 6 4932
4503	9	44 51.11	1	3.2213	0.0014	— 6 28 53.3	1	3.900	0.459	87.6	— 6 4933
4504	6.7	45 4.16	11	3.1515	0.0010	— 3 27 23.7	4	3.918	0.449	82.5; 83.3	— 3 4392
4505	9	45 10.40	3	3.1374	0.0009	— 2 50 23.6	3	3.927	0.447	86.6	— 2 4761
4506	8.9	18 45 27.15	2	+ 3.1158	— 0.0008	— 1 53 59.2	2	+ 3.951	+ 0.444	88.0	— 1 3582
4507	9.8	45 39.68	1	3.2363	0.0015	— 7 7 56.8	1	3.969	0.461	90.6	— 7 4747
4508	9	45 45.88	1	3.1562	0.0011	— 3 39 39.4	1	3.978	0.449	86.6	— 3 4395
4509	8.7	46 6.53	5	3.1609	0.0011	— 3 52 4.3	4	4.007	0.450	86.0; 84.3	— 3 4397
4510	9	46 11.83	1	3.1366	0.0010	— 2 48 26.8	1	4.015	0.446	86.6	— 2 4765
4511	8	18 46 20.46	10	+ 3.2098	— 0.0014	— 5 59 33.0	10	+ 4.027	+ 0.457	87.6	— 6 4941
4512	9	46 25.50	3	3.1269	0.0009	— 2 23 4.0	3	4.034	0.445	88.6	— 2 4768
4513	9.8	46 27.52	3	3.1848	0.0013	— 4 54 27.8	3	4.037	0.453	91.5	— 4 4603
4514	9	46 31.76	2	3.2197	0.0015	— 6 25 14.3	2	4.044	0.458	87.6	— 6 4942
4515	9	46 35.73	1	3.2165	0.0015	— 6 16 55.5	1	4.049	0.458	86.6	— 6 4943
4516	7.8	18 46 49.27	7	+ 3.1840	— 0.0013	— 4 52 36.5	4	+ 4.068	+ 0.453	89.0; 87.1	— 4 4607
4517	9	46 50.32	3	3.2195	0.0015	— 6 24 54.3	1	4.070	0.458	87.6	— 6 4944
4518	9.8	46 55.66	2	3.2263	0.0015	— 6 42 27.8	2	4.078	0.459	79.6	— 6 4946
4519	8.9	46 55.78	2	3.1958	0.0014	— 5 23 16.5	2	4.078	0.455	84.6	— 5 4794
4520	8.9	46 57.72	2	3.1314	0.0010	— 2 35 0.9	2	4.080	0.446	84.6	— 2 4773
4521	9	18 47 4.26	3	+ 3.1144	— 0.0009	— 1 50 34.6	3	+ 4.090	+ 0.443	85.2	— 1 3587
4522	8.9	47 10.14	4	3.1570	0.0011	— 3 42 1.4	4	4.098	0.449	86.8	— 3 4401
4523	8.9	47 17.92	1	3.2027	0.0014	— 5 41 23.2	1	4.109	0.455	79.6	— 5 4798
4524	9.8	47 44.66	2	3.1603	0.0012	— 3 50 43.4	2	4.148	0.449	91.1	— 3 4404
4525	8.9	48 2.61	7	3.2122	0.0015	— 6 6 21.6	6	4.173	0.456	88.7; 87.4	— 6 4953
4526	9	18 48 6.77	1	+ 3.1526	— 0.0012	— 3 30 34.8	1	+ 4.179	+ 0.448	86.6	— 3 4407
4527	9.8	48 51.25	3	3.1185	0.0010	— 2 1 28.6	3	4.242	0.443	90.6	— 2 4782
4528	9	48 53.73	1	3.1571	0.0013	— 3 42 45.1	1	4.246	0.448	90.5	— 3 4412
4529	8	48 58.54	2	3.1933	0.0015	— 5 17 26.9	2	4.253	0.453	81.1	— 5 4807
4530	8.9	49 16.13	2	3.2280	0.0017	— 6 47 50.8	2	4.278	0.458	87.6	— 6 4964
4531	8	18 49 29.73	9	+ 3.2070	— 0.0016	— 5 53 6.9	4	+ 4.297	+ 0.455	87.9; 86.8	— 5 4811
4532	9	49 30.15	3	3.2211	0.0017	— 6 29 57.6	2	4.298	0.457	87.6	— 6 4966
4533	8.9	49 37.12	8	3.1853	0.0015	— 4 56 45.7	5	4.308	0.452	88.4; 86.6	— 4 4631
4534	9	49 38.61	1	3.1791	0.0014	— 4 40 26.0	1	4.310	0.451	94.6	— 4 4632
4535	9	49 42.14	2	3.2207	0.0017	— 6 28 52.6	1	4.315	0.457	87.6	— 6 4967
4536	9.8	18 49 44.01	6	+ 3.1845	— 0.0015	— 4 54 35.2	4	+ 4.318	+ 0.452	89.7	— 4 4634
4537	8.9	50 3.54	6	3.2118	0.0017	— 6 6 4.5	3	4.345	0.455	91.8; 86.9	— 6 4971
4538	9.8	50 6.01	3	3.2102	0.0017	— 6 1 45.0	2	4.349	0.455	96.7	— 6 4972
4539	6.7	50 8.81	5	3.1168	0.0011	— 1 57 11.6	5	4.353	0.442	81.6	— 1 3602
4540	8.9	50 21.21	2	3.2347	0.0018	— 7 5 40.7	2	4.371	0.459	85.5	— 7 4780
4541	8.9	18 50 23.72	4	+ 3.2053	— 0.0017	— 5 49 15.5	2	+ 4.374	+ 0.454	93.8; 92.6	— 5 4816
4542	9	50 36.88	1	3.1568	0.0014	— 3 42 22.2	1	4.393	0.447	90.5	— 3 4421
4543	5	50 38.17	13	3.2095	0.0017	— 6 0 2.6	4	4.395	0.455	87.5; 88.0	— 6 4976
4544	9.8	50 44.21	6	3.1354	0.0012	— 2 46 5.3	6	4.403	0.444	85.1	— 2 4798
4545	9	51 37.03	5	3.1201	0.0012	— 2 5 53.7	5	4.478	0.442	89.4	— 2 4804
4546	8.9	18 51 46.38	5	+ 3.1704	— 0.0015	— 4 18 11.7	5	+ 4.492	+ 0.449	82.0	— 4 4647
4547	8	52 22.97	5	3.2045	0.0018	— 5 47 48.3	2	4.544	0.453	81.8; 87.1	— 5 4826
4548	8	52 31.13	6	3.1837	0.0016	— 4 53 15.8	6	4.555	0.450	84.1	— 4 4650
4549	8	52 45.08	1	3.2322	0.0020	— 7 0 10.4	1	4.575	0.457	90.6	— 7 4798
4550	8.9	53 4.22	4	3.2002	0.0018	— 5 36 44.1	4	4.602	0.452	83.4	— 5 4830

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
4551	9.8	18	53	14.96	1	+3.1182	−0.0013	−2	1	9.7	1	+4.618	+0.440	92.6	−2	4813
4552	7		53	20.99	3	3.1405	0.0014	−2	59	52.4	3	4.626	0.444	83.9	−3	4439
4553	9.8		53	44.18	3	3.1754	0.0017	−4	31	57.8	2	4.659	0.448	90.9; 95.0	−4	4658
4554	9.8		54	1.83	1	3.1984	0.0018	−5	32	15.6	1	4.684	0.451	91.5	−5	4835
4555	9		54	5.13	1	3.2214	0.0020	−6	32	26.0	1	4.689	0.455	87.6	−6	4999
4556	9.8	18	54	7.11	4	+3.1744	−0.0017	−4	29	29.0	1	+4.692	+0.448	91.8; 94.6	−4	4660
4557	8.9		54	9.46	3	3.1319	0.0014	−2	37	19.5	3	4.695	0.442	81.9	−2	4819
4558	8.9		54	31.18	1	3.1160	0.0013	−1	55	28.3	1	4.726	0.440	78.6	−1	3620
4559	9.8		54	37.81	5	3.2265	0.0021	−6	46	2.5	4	4.735	0.455	84.4; 83.6	−6	5004
4560	8.9		54	39.07	4	3.2017	0.0019	−5	41	13.1	2	4.737	0.452	91.8; 87.1	−5	4836
4561	7.8	18	54	48.42	9	+3.1770	−0.0018	−4	36	24.8	6	+4.750	+0.448	87.6; 83.9	−4	4663
4562	9		54	51.54	1	3.1560	0.0016	−3	41	16.2	1	4.754	0.445	92.6	−3	4446
4563	8		55	1.46	4	3.2171	0.0020	−6	21	39.8	3	4.769	0.454	83.1; 84.9	−6	5005
4564	9.8		55	2.37	1	3.1824	0.0018	−4	50	42.8	1	4.770	0.449	78.6	−4	4665
4565	9		55	13.21	8	3.1554	0.0016	−3	39	37.5	2	4.785	0.445	88.6; 86.6	−3	4449
4566	5.4	18	55	16.34	7	+3.2067	−0.0020	−5	54	24.7	7	+4.790	+0.452	87.0	−5	4840
4567	8.9		55	22.76	13	3.2213	0.0021	−6	32	53.7	4	4.799	0.454	85.6; 84.1	−6	5007
4568	9		55	27.95	6	3.1201	0.0014	−2	6	27.9	6	4.806	0.440	88.6	−2	4827
4569	8.9		55	29.99	6	3.2168	0.0021	−6	21	4.7	3	4.809	0.453	84.9	−6	5009
4570	8.9		55	31.91	6	3.1526	0.0016	−3	32	28.0	3	4.812	0.444	84.6; 80.6	−3	4450
4571	8.9	18	55	50.71	14	+3.2223	−0.0021	−6	35	35.1	5	+4.838	+0.454	85.7; 84.6	−6	5013
4572	8		55	59.93	8	3.2022	0.0020	−5	43	3.3	4	4.851	0.451	89.8; 88.8	−5	4841
4573	9.8		56	7.73	8	3.2204	0.0021	−6	30	51.3	5	4.862	0.454	86.2; 88.2	−6	5016
4574	9.8		56	10.60	1	3.1408	0.0016	−3	1	9.9	1	4.866	0.442	79.6	−3	4454
4575	9.8		56	11.65	1	3.1711	0.0018	−4	21	10.7	1	4.868	0.446	78.6	−4	4673
4576	9	18	56	17.30	2	+3.1851	−0.0019	−4	58	6.0	2	+4.876	+0.448	91.5	−5	4844
4577	8.9		56	27.30	9	3.2019	0.0020	−5	42	28.4	1	4.890	0.451	90.6; 96.7	−5	4845
4578	5.6		56	35.30	2	3.1601	0.0017	−3	52	17.0	2	4.901	0.445	90.5	−3	4460
4579	9		56	42.75	1	3.1520	0.0017	−3	30	55.0	1	4.912	0.443	92.6	−3	4461
4580	9.8		56	50.29	3	3.1548	0.0017	−3	38	30.3	3	4.928	0.444	84.9	−3	4465
4581	8	18	56	52.72	5	+3.2086	−0.0021	−6	0	6.5	4	+4.926	+0.451	86.0; 82.0	−6	5020
4582	7		56	53.47	7	3.2024	0.0020	−5	43	57.3	1	4.927	0.451	88.9; 78.6	−5	4848
4583	8		57	1.42	6	3.1394	0.0016	−2	57	40.2	5	4.938	0.442	83.6; 84.4	−3	4466
4584	9.8		57	36.09	7	3.1182	0.0015	−2	1	48.1	7	4.987	0.438	89.0	−2	4839
4585	9		57	36.51	2	3.1996	0.0021	−5	36	52.4	2	4.988	0.450	91.6	−5	4854
4586	8.9	18	57	55.66	5	+3.1222	−0.0016	−2	12	20.2	5	+5.015	+0.439	87.6	−2	4840
4587	7.8		57	59.64	9	3.2052	0.0021	−5	51	41.3	8	5.021	0.450	85.0; 86.0	−5	4858
4588	9		58	6.31	4	3.1766	0.0019	−4	36	26.1	3	5.036	0.446	92.3	−4	4680
4589	8		58	36.47	4	3.1677	0.0019	−4	13	5.0	2	5.072	0.445	86.8; 78.6	−4	4683
4590	7		58	37.56	4	3.1675	0.0019	−4	12	32.0	4	5.074	0.445	87.3	−4	4684
4591	9	18	58	52.95	1	+3.2164	−0.0023	−6	21	20.3	1	+5.096	+0.452	90.6	−6	5033
4592	9		58	58.69	2	3.1788	0.0020	−4	42	23.5	1	5.104	0.446	91.6	−4	4687
4593	9		59	5.06	1	3.1756	0.0020	−4	33	58.3	1	5.113	0.446	95.5	−4	4688
4594	9		59	18.82	2	3.1830	0.0021	−4	53	35.2	1	5.132	0.447	91.5	−4	4690
4595	8.9		59	27.33	3	3.1586	0.0019	−3	49	13.7	3	5.144	0.443	85.6	−3	4476
4596	9.8	18	59	51.21	1	+3.1970	−0.0022	−5	30	51.1	1	+5.178	+0.448	94.6	−5	4874
4597	9.8		59	52.92	2	3.1814	0.0021	−4	49	39.6	1	5.180	0.446	91.5	−4	4692
4598	9		59	53.97	3	3.1178	0.0016	−2	0	59.1	2	5.182	0.437	88.6	−2	4854
4599	8.9	19	0	43.34	5	3.1155	0.0017	−1	55	3.4	2	5.251	0.436	90.2	−1	3653
4600	8		0	51.92	4	3.1871	0.0022	−5	4	58.2	1	5.263	0.446	78.1	−5	4877

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		h	m	s		s	s	°	′	″		″	″		°	
4601	9.8	19	1	0.46	2	+ 3.1145	— 0.0017	— 1	52	24.8	1	+ 5.275	+ 0.436	92.6	— 1	3655
4602	9.8		1	8.76	3	3.2283	0.0025	— 6	53	47.1	3	5.287	0.452	86.6	— 6	5040
4603	8.9		1	17.30	2	3.1884	0.0022	— 5	8	36.5	1	5.299	0.446	78.6	— 5	4882
4604	8.9		1	21.23	3	3.1400	0.0019	— 3	0	17.6	3	5.305	0.439	81.2	— 3	4485
4605	9		1	27.87	2	3.1318	0.0018	— 2	38	20.0	2	5.314	0.438	81.6	— 2	4865
4606	8.9	19	1	35.74	1	+ 3.1452	— 0.0019	— 3	14	10.0	1	+ 5.325	+ 0.440	81.6	— 3	4486
4607	8		1	50.83	5	3.1969	0.0023	— 5	31	11.2	5	5.346	0.447	85.2	— 5	4884
4608	9		1	51.70	1	3.1561	0.0020	— 3	43	16.6	1	5.348	0.441	86.6	— 3	4489
4609	8.9		2	12.35	9	3.2538	0.0026	— 7	8	46.0	4	5 376	0.452	83.2; 80.6	— 7	4863
4610	8.7		2	34.10	12	3.2351	0.0027	— 7	12	22.8	5	5.407	0.452	83.9	— 7	4867
4611	7	19	2	36.89	9	+ 3.1280	— 0.0019	— 2	28	37.7	9	+ 5.411	+ 0.437	86.4	— 2	4872
4612	8.9		2	48.79	1	3.1923	0.0024	— 5	19	26.2	1	5.428	0.446	78.6	— 5	4889
4613	7.8		2	57.58	13	3.2827	0.0027	— 7	6	13.9	4	5.440	0.451	84.7; 90.3	— 7	4869
4614	8		3	29.34	2	3.1593	0.0021	— 3	52	11.5	2	5.485	0.441	84.6	— 3	4499
4615	9.8?		3	48.94	1	3.2078	0.0025	— 6	0	51.7	1	5.512	0.447	96.5	— 6	5049
4616	9.8	19	3	53.54	4	+ 3.1677	— 0.0022	— 4	14	35.5	4	+ 5.518	+ 0.442	83.9	— 4	4707
4617	8.9		4	3.41	1	3.1834	0.0024	— 4	56	32.6	1	5.532	0.444	91.5	— 4	4708
4618	7.8		4	31.04	4	3.2289	0.0027	— 6	48	58.6	4	5.571	0.449	86.9	— 6	5054
4619	8.9		4	48.32	6	3.1694	0.0023	— 4	19	29.3	5	5.595	0.441	81.9; 82.8	— 4	4712
4620	8		4	54.78	6	3.1358	0.0020	— 2	49	52.7	6	5.604	0.437	85.4	— 2	4881
4621	9.8	19	5	21.60	4	+ 3.1637	— 0.0023	— 4	4	29.7	4	+ 5.642	+ 0.440	88.6	— 4	4716
4622	8.9		5	22.24	8	3.1455	0.0021	— 3	15	44.7	8	5.643	0.438	83.0	— 3	4505
4623	9		5	25.67	1	3.2211	0.0027	— 6	36	57.8	1	5.648	0.448	87.6	— 6	5060
4624	9		5	34.19	2	3.1301	0.0020	— 2	34	37.9	1	5.660	0.435	84.6; 92.6	— 2	4885
4625	8.9		6	1.40	2	3.1769	0.0024	— 4	39	45.0	2	5.698	0.442	86.1	— 4	4719
4626	8.7	19	6	3.90	6	+ 3.1983	— 0.0026	— 5	36	43.1	6	+ 5.701	+ 0.445	88.4	— 5	4903
4627	9		6	37.49	1	3.1565	0.0023	— 3	45	30.8	1	5.748	0.439	92.6	— 3	4511
4628	8.9		6	40.52	8	3.1563	0.0023	— 3	44	57.1	5	5.752	0.439	83.6; 81.8	— 3	4513
4629	9.8		6	40.94	5	3.1534	0.0023	— 3	37	14.2	3	5.753	0.438	85.0; 84.0	— 3	4514
4630	8		6	47.11	8	3.1661	0.0024	— 4	11	18.5	7	5.761	0.440	83.1	— 4	4724
4631	8.9	19	6	55.05	6	+ 3.1542	— 0.0023	— 3	39	32.8	3	+ 5.772	+ 0.438	84.1	— 3	4516
4632	9.8		7	28.67	1	3.2090	0.0028	— 6	5	55.4	1	5.819	0.445	96.5	— 6	5072
4633	9.8		7	33.79	10	3.1178	0.0021	— 2	2	15.6	4	5.827	0.433	82.3; 87.8	— 2	4897
4634	9		7	38.26	1	3.1380	0.0022	— 2	56	18.1	1	5.833	0.435	86.6	— 2	4899
4635	9.8		7	46.27	9	3.1174	0.0021	— 2	0	59.9	5	5.844	0.432	89.6; 90.4	— 2	4901
4636	8	19	7	56.57	4	+ 3.2044	— 0.0028	— 5	53	45.2	4	+ 5.858	+ 0.444	80.3	— 5	4915
4637	8.9		7	58.92	5	3.1551	0.0024	— 3	42	15.6	3	5.862	0.438	88.4; 90.9	— 3	4522
4638	9.8		8	14.15	1	3.1308	0.0022	— 2	37	13.2	1	5.883	0.434	76.6	— 2	4905
4639	8		8	27.10	1	3.1199	0.0021	— 2	7	57.2	1	5.901	0.432	78.6	— 2	4907
4640	8.9		8	30.62	4	3.1525	0.0024	— 3	35	25.9	1	5.906	0.437	86.6	— 3	4526
4641	8.9	19	8	47.44	4	+ 3.1512	— 0.0024	— 3	32	1.6	1	+ 5.929	+ 0.436	84.1; 76.6	— 3	4530
4642	9.8		8	52.63	1	3.1655	0.0025	— 4	10	25.2	1	5.936	0.438	90.6	— 4	4737
4643	8.9		8	53.68	4	3.1517	0.0024	— 3	33	29.2	2	5.938	0.436	86.6	— 3	4532
4644	7		8	56.85	5	3.2123	0.0029	— 6	15	26.7	5	5.942	0.445	87.2	— 6	5077
4645	8		9	9.41	4	3.1464	0.0024	— 3	19	15.0	2	5.960	0.436	85.3; 79.6	— 3	4535
4646	8.9	19	9	20.20	3	+ 3.1448	— 0.0023	— 3	14	59.2	2	+ 5.975	+ 0.435	88.2; 91.1	— 3	4536
4647	9		9	22.54	1	3.2178	0.0030	— 6	30	17.3	1	5.978	0.445	90.6	— 6	5080
4648	9		9	25.33	1	3.1411	0.0023	— 3	5	9.7	1	5.982	0.435	86.6	— 3	4538
4649	8.9		9	28.72	1	3.1345	0.0028	— 2	47	13.8	1	5.987	0.434	86.6	— 2	4912
4650	9.8		9	35.14	6	3.1218	0.0022	— 2	13	26.2	4	5.996	0.432	79.6; 80.6	— 2	4913

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		h m s		s	s	° ′ ″		″	″		°
4651	9.8	19 9 41.70	2	+ 3.1156	— 0.0021	— 1 56 30.4	2	+ 6.005	+ 0.431	76.6	— 1 3693
4652	9	9 54.00	2	3.1505	0.0024	— 3 30 31.9	2	6.022	0.436	89.6	— 3 4541
4653	9.8	9 59.79	4	3.1364	0.0023	— 2 52 30.5	1	6.030	0.434	79.9; 76.6	— 2 4916
4654	9.8	10 1.57	4	3.1205	0.0022	— 2 9 41.7	3	6.032	0.431	84.1	— 2 4917
4655	8.9	10 7.21	1	3.1245	0.0022	— 2 20 39.5	1	6.040	0.432	76.6	— 2 4918
4656	8.9	19 10 21.11	1	+ 3.1265	— 0.0023	— 2 25 57.4	1	+ 6.060	+ 0.432	92.6	— 2 4920
4657	8.9	10 35.68	4	3.1808	0.0027	— 4 51 57.5	4	6.080	0.439	88.6	— 4 4750
4658	8.9	10 43.95	12	3.1204	0.0022	— 2 9 32.2	7	6.091	0.431	82.7	— 2 4924
4659	8.9	10 47.10	3	3.1724	0.0027	— 4 29 31.3	3	6.096	0.438	85.8	— 4 4751
4660	8.9	10 51.45	6	3.1523	0.0025	— 3 35 27.1	5	6.102	0.435	89.3	— 3 4548
4661	9.8	19 11 16.94	2	+ 3.2105	— 0.0030	— 6 11 37.4	2	+ 6.137	+ 0.443	96.6	— 6 5086
4662	8.9	11 21.96	1	3.1033	0.0021	— 1 23 34.3	1	6.144	0.428	76.6	— 1 3699
4663	8.9	11 41.67	3	3.1548	0.0026	— 3 41 15.5	3	6.172	0.435	86.3	— 3 4553
4664	8	11 43.60	3	3.1979	0.0029	— 5 38 18.5	3	6.174	0.441	86.6	— 5 4927
4665	9	12 3.49	1	3.2199	0.0032	— 6 37 20.6	1	6.202	0.444	93.6	— 6 5091
4666	8	19 12 6.34	9	+ 3.2263	— 0.0032	— 6 54 13.1	8	+ 6.206	+ 0.445	86.4; 87.2	— 6 5092
4667	9	12 20.26	1	3.1769	0.0028	— 4 42 17.0	1	6.225	0.438	95.5	— 4 4764
4668	8	12 22.64	2	3.2056	0.0031	— 5 59 19.4	2	6.228	0.442	88.1	— 6 5096
4669	9.8	12 27.22	2	3.1190	0.0023	— 2 6 13.3	2	6.235	0.430	85.6	— 2 4935
4670	8	12 34.26	3	3.1610	0.0027	— 3 59 32.6	3	6.244	0.435	84.0	— 4 4768
4671	9	19 12 59.87	3	+ 3.2020	— 0.0031	— 5 49 58.6	3	+ 6.280	+ 0.441	86.0	— 5 4933
4672	9.8	13 12.83	1	3.1853	0.0029	— 5 5 15.0	1	6.298	0.438	95.6	— 5 4934
4673	8.7	13 36.06	7	3.2247	0.0033	— 6 50 52.7	5	6.330	0.444	85.3	— 6 5103
4674	9.8	13 51.86	1	3.1126	0.0023	— 1 49 0.8	1	6.352	0.428	80.6	— 1 3711
4675	9.8	13 53.18	1	3.1386	0.0025	— 2 59 26.1	1	6.354	0.431	86.6	— 3 4565
4676	8	19 13 59.83	7	+ 3.1349	— 0.0025	— 2 49 23.9	5	+ 6.363	+ 0.431	82.7	— 2 4943
4677	8.9	14 7.23	3	3.2273	0.0034	— 6 58 10.6	2	6.373	0.444	85.6; 88.6	— 7 4929
4678	9.8	14 7.53	3	3.2118	0.0032	— 6 16 34.8	3	6.374	0.441	93.3	— 6 5107
4679	6	14 8.49	3	3.1975	0.0031	— 5 38 18.8	3	6.375	0.439	80.9	— 5 4936
4680	8.9	14 10.63	1	3.1028	0.0023	— 1 22 43.5	1	6.378	0.426	92.6	— 1 3714
4681	9	19 14 17.65	3	+ 3.2008	— 0.0031	— 5 47 20.3	3	+ 6.388	+ 0.440	85.0	— 5 4938
4682	9.8	14 18.38	1	3.1671	0.0028	— 4 16 38.1	1	6.389	0.435	76.6	— 4 4779
4683	8	14 21.51	9	3.1320	0.0025	— 2 41 49.0	5	6.393	0.430	81.7	— 2 4946
4684	8.7	14 27.30	5	3.1770	0.0029	— 4 43 28.3	5	6.401	0.436	84.2	— 4 4781
4685	8.9	14 36.28	5	3.1154	0.0024	— 1 56 41.9	4	6.413	0.428	83.8; 85.6	— 1 3717
4686	7.8	19 14 54.58	2	+ 3.1033	— 0.0023	— 1 24 0.8	1	+ 6.439	+ 0.426	84.6; 76.6	— 1 3720
4687	9.8	15 0.01	2	3.2014	0.0031	— 5 49 18.0	2	6.446	0.439	82.1	— 5 4941
4688	8.9	15 21.09	4	3.1322	0.0026	— 2 42 28.6	2	6.475	0.430	82.1	— 2 4950
4689	9	15 23.26	1	3.1526	0.0028	— 3 37 46.7	1	6.478	0.432	92.6	— 3 4569
4690	8.9	15 24.57	4	3.1839	0.0030	— 5 2 19.6	2	6.480	0.437	87.1; 91.1	— 5 4942
4691	9	19 15 29.91	2	+ 3.1342	— 0.0026	— 2 48 0.4	1	+ 6.487	+ 0.430	77.6; 76.6	— 2 4954
4692	9.8	15 31.65	1	3.1246	0.0025	— 2 21 48.9	1	6.490	0.428	78.6	— 2 4955
4693	8	15 32.80	7	3.1179	0.0025	— 2 3 51.8	6	6.491	0.427	85.9	— 2 4956
4694	7.8	15 41.96	5	3.1822	0.0030	— 4 57 45.5	3	6.504	0.436	85.6; 81.9	— 5 4945
4695	8	15 46.51	2	3.2113	0.0033	— 6 16 16.0	2	6.510	0.440	89.0	— 6 5117
4696	8.9	19 16 3.96	1	+ 3.1764	— 0.0030	— 4 42 21.3	1	+ 6.534	+ 0.435	76.6	— 4 4787
4697	7	16 15.11	5	3.1595	0.0029	— 3 56 39.5	5	6.550	0.433	85.2	— 3 4573
4698	9	16 31.85	2	3.1210	0.0025	— 2 12 26.0	1	6.573	0.427	88.1; 89.6	— 2 4963
4699	9.8	16 33.06	1	3.1410	0.0027	— 3 6 40.6	1	6.574	0.430	86.6	— 3 4577
4700	9.8	16 37.46	3	3.2264	0.0035	— 6 57 10.2	3	6.580	0.442	92.6	— 6 5123

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		h	m	s		s	s	°	'	"		"	"		°	
4701	9.8	19	17	12.26	4	+ 3.1746	— 0.0031	— 4	38	1.1	3	+ 6.628	+ 0.434	91.1; 92.6	— 4	4798
4702	8		17	40.66	5	3.1989	0.0033	— 5	43	54.7	2	6.668	0.438	87.4; 81.6	— 5	4956
4703	9		17	46.51	2	3.1841	0.0032	— 5	4	3.4	2	6.676	0.435	94.6	— 5	4958
4704	8.9		18	1.28	4	3.1720	0.0031	— 4	31	9.3	3	6.696	0.433	85.2	— 4	4799
4705	8		18	21.03	5	3.1970	0.0033	— 5	39	4.7	3	6.723	0.436	85.4; 91.3	— 5	4961
4706	7	19	18	39.23	7	+ 3.1851	— 0.0032	— 5	7	3.9	6	+ 6.748	+ 0.435	85.5; 84.0	— 5	4964
4707	9.8		18	49.90	3	3.1765	0.0032	— 4	43	46.1	3	6.763	0.433	83.6	— 4	4808
4708	8.9		19	3.70	15	3.1288	0.0027	— 2	20	34.1	8	6.782	0.426	84.6; 83.4	— 2	4982
4709	9.8		19	7.98	3	3.1596	0.0030	— 3	58	2.9	3	6.787	0.431	88.3	— 4	4805
4710	8.7		19	23.46	19	3.1228	0.0027	— 2	17	49.9	10	6.809	0.425	84.9; 87.0	— 2	4986
4711	9	19	19	32.46	1	+ 3.1507	— 0.0030	— 3	34	0.8	1	+ 6.821	+ 0.429	92.6	— 3	4590
4712	8.9		20	8.30	8	3.1202	0.0027	— 2	11	2.9	6	6.870	0.425	85.0	— 2	4992
4713	9		20	12.40	7	3.2286	0.0037	— 6	51	57.8	7	6.876	0.439	87.8	— 6	5147
4714	9.8		20	54.50	3	3.1668	0.0032	— 4	18	15.0	3	6.933	0.430	86.0	— 4	4811
4715	8		20	56.45	4	3.2036	0.0035	— 5	58	22.7	4	6.936	0.435	85.9	— 6	5151
4716	8	19	21	8.42	6	+ 3.1219	— 0.0028	— 2	15	41.5	5	+ 6.952	+ 0.424	82.8; 83.6	— 2	4998
4717	8		21	30.41	6	3.1833	0.0034	— 5	3	32.5	5	6.983	0.432	88.3; 90.6	— 5	4979
4718	9.8		21	53.00	4	3.1444	0.0030	— 3	17	40.0	4	7.013	0.427	84.4	— 3	4598
4719	9.8		22	22.85	1	3.1947	0.0036	— 5	35	8.5	1	7.054	0.433	83.6	— 5	4983
4720	8.9		22	33.62	6	3.2131	0.0038	— 6	25	5.3	6	7.069	0.435	89.6	— 6	5158
4721	9.8	19	22	59.84	5	+ 3.1784	— 0.0034	— 4	37	24.8	5	+ 7.105	+ 0.430	83.4	— 4	4816
4722	9		23	7.43	1	3.1390	0.0030	— 3	3	14.8	1	7.115	0.425	86.6	— 3	4603
4723	9		23	16.94	1	3.1236	0.0029	— 2	20	56.3	1	7.128	0.423	88.7	— 2	5011
4724	9		23	24.13	1	3.1371	0.0030	— 2	57	59.4	1	7.138	0.424	76.6	— 3	4606
4725	9		23	30.57	1	3.1225	0.0029	— 2	17	51.7	1	7.146	0.422	92.6	— 2	5014
4726	9	19	23	37.71	4	+ 3.1853	— 0.0035	— 5	10	9.1	4	+ 7.156	+ 0.431	87.6	— 5	4985
4727	9		23	51.44	2	3.2213	0.0039	— 6	48	16.2	1	7.175	0.436	93.6	— 6	5165
4728	8.9		23	52.68	8	3.2208	0.0039	— 6	46	53.1	6	7.177	0.436	84.6; 86.3	— 6	5166
4729	8		23	59.92	6	3.1472	0.0032	— 3	25	53.7	6	7.186	0.426	86.9	— 3	4611
4730	9		24	16.84	1	3.1285	0.0030	— 2	34	39.4	1	7.210	0.423	76.6	— 2	5019
4731	9.8	19	24	20.22	4	+ 3.1135	— 0.0028	— 1	53	21.7	3	+ 7.214	+ 0.421	84.6	— 1	3756
4732	6		24	23.33	3	3.1385	0.0031	— 3	2	12.2	3	7.218	0.424	83.2	— 3	4612
4733	7.8		24	27.64	14	3.2202	0.0039	— 6	45	34.4	7	7.224	0.435	86.4; 85.3	— 6	5170
4734	9.8		24	32.36	2	3.1111	0.0028	— 1	46	53.1	1	7.231	0.420	89.6	— 1	3758
4735	8.9		24	42.62	4	3.1706	0.0034	— 4	30	19.2	3	7.245	0.428	85.1; 88.0	— 4	4832
4736	8	19	24	45.53	19	+ 3.1221	— 0.0029	— 2	17	5.5	12	+ 7.249	+ 0.421	86.2; 84.8	— 2	5022
4737	8.9		24	49.26	4	3.2016	0.0038	— 5	55	19.0	4	7.254	0.432	85.9	— 5	4989
4738	7		25	1.16	21	3.1237	0.0030	— 2	21	40.2	10	7.270	0.421	85.6	— 2	5024
4739	8.9		25	11.54	1	3.1894	0.0037	— 5	22	6.7	1	7.284	0.430	83.6	— 5	4992
4740	9		25	27.13	1	3.1279	0.0030	— 2	33	16.1	1	7.305	0.422	92.6	— 2	5025
4741	9	19	26	11.09	1	+ 3.1840	— 0.0036	— 5	7	58.1	1	+ 7.365	+ 0.429	94.6	— 5	4999
4742	8.9		27	2.09	8	3.1806	0.0037	— 4	59	0.9	4	7.434	0.428	88.8	— 5	5003
4743	9		27	18.25	4	3.1186	0.0030	— 2	8	5.6	2	7.456	0.419	85.6; 82.6	— 2	5036
4744	8		27	21.96	10	3.1809	0.0037	— 4	59	57.1	6	7.461	0.427	87.6	— 5	5006
4745	9		27	39.88	2	3.1249	0.0031	— 2	25	44.0	2	7.485	0.420	85.2	— 2	5038
4746	9	19	27	50.48	3	+ 3.1218	— 0.0031	— 2	15	43.2	1	+ 7.499	+ 0.419	88.6	— 2	5039
4747	9		27	53.72	6	3.1206	0.0031	— 2	13	40.3	3	7.504	0.419	85.4; 86.3	— 2	5040
4748	9		27	55.37	3	3.1492	0.0034	— 3	32	52.1	3	7.506	0.423	86.6	— 3	4630
4749	9.8		28	3.68	1	3.2255	0.0042	— 7	2	44.8	1	7.517	0.434	76.7	— 7	4971
4750	9		28	9.13	1	3.1465	0.0034	— 3	25	37.2	1	7.525	0.422	92.6	— 3	4633

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		h	m	s		s	s	°	'	"		"	"		°	
4751	8.9	19	28	9.15	5	+ 3.1744	— 0.0037	— 4	42	31.0	5	+ 7.526	+ 0.426	86.4	— 4	4843
4752	9		28	41.01	1	3.1368	0.0033	— 2	58	49.0	1	7.568	0.420	86.6	— 3	4635
4753	9		28	50.40	8	3.1254	0.0032	— 2	27	22.8	5	7.580	0.419	90.0	— 2	5048
4754	8.9		28	52.29	2	3.1713	0.0037	— 4	34	16.6	2	7.583	0.425	91.6	— 4	4846
4755	9		28	57.09	11	3.1266	0.0032	— 2	30	42.3	6	7.589	0.419	90.1	— 2	5049
4756	9.8	19	29	26.26	9	+ 3.1141	— 0.0031	— 1	55	59.0	8	+ 7.629	+ 0.417	87.5	— 1	3777
4757	8.9		29	29.89	1	3.1307	0.0033	— 2	42	6.9	1	7.634	0.419	86.6	— 2	5052
4758	9.8		29	30.20	1	3.1984	0.0040	— 5	49	22.0	1	7.634	0.428	76.7	— 5	5016
4759	9		29	32.48	2	3.1808	0.0038	— 5	0	49.0	1	7.637	0.426	86.7	— 5	5017
4760	9.8		29	33.97	1	3.1972	0.0040	— 5	46	14.5	1	7.639	0.428	90.6	— 5	5018
4761	8	19	29	35.88	5	+ 3.1310	— 0.0033	— 2	43	0.6	2	+ 7.642	+ 0.419	81.4; 77.6	— 2	5054
4762	9.8		29	36.26	6	3.1440	0.0034	— 3	19	11.9	6	7.642	0.421	84.6	— 3	4642
4763	9.8		29	41.93	8	3.1127	0.0031	— 1	52	10.4	2	7.650	0.416	85.3; 83.1	— 1	3779
4764	8.9		29	56.24	4	3.1386	0.0034	— 3	4	14.7	3	7.669	0.420	81.6; 83.3	— 3	4645
4765	8.9		29	56.85	1	3.1338	0.0033	— 2	50	54.7	1	7.670	0.419	78.7	— 2	5056
4766	8.9	19	29	58.33	7	+ 3.1820	— 0.0038	— 5	4	27.1	4	+ 7.672	+ 0.425	90.2	— 5	5020
4767	9.8		30	1.21	7	3.2073	0.0041	— 6	14	3.1	6	7.676	0.429	87.2; 89.0	— 6	5201
4768	8		30	5.25	6	3.1281	0.0033	— 2	35	7.0	5	7.681	0.418	81.6; 80.2	— 2	5057
4769	8.7		30	12.47	8	3.1812	0.0038	— 5	2	12.9	3	7.691	0.425	88.8; 86.5	— 5	5021
4770	8		30	18.33	6	3.1991	0.0040	— 5	51	40.8	4	7.699	0.427	82.1; 81.4	— 5	5022
4771	9.8	19	30	19.30	1	+ 3.1764	— 0.0038	— 4	49	7.2	1	+ 7.700	+ 0.424	95.6	— 4	4853
4772	5.4		30	26.26	2	3.2303	0.0044	— 7	17	34.5	2	7.710	0.432	86.6	— 7	5006
4773	9		30	35.19	1	3.1236	0.0032	— 2	22	39.7	1	7.722	0.417	88.7	— 2	5061
4774	9.8		30	49.08	1	3.1764	0.0038	— 4	49	23.5	1	7.740	0.424	86.7	— 4	4858
4775	8.9		30	55.14	5	3.1891	0.0040	— 5	24	28.3	3	7.749	0.426	78.9; 79.7	— 5	5023
4776	9	19	31	0.68	2	+ 3.1493	— 0.0035	— 3	34	17.0	1	+ 7.756	+ 0.420	86.6	— 3	4650
4777	9		31	1.25	2	3.1487	0.0035	— 3	32	45.1	1	7.757	0.420	86.6	— 3	4651
4778	9		31	15.70	2	3.1136	0.0032	— 1	54	59.0	2	7.776	0.416	85.1	— 1	3789
4779	8.9		31	19.17	3	3.1625	0.0037	— 4	11	9.5	2	7.781	0.422	88.0; 98.6	— 4	4860
4780	8		31	21.86	5	3.1878	0.0040	— 5	19	45.4	2	7.784	0.425	78.9; 77.7	— 5	5026
4781	6	19	31	25.44	7	+ 3.1782	— 0.0039	— 4	54	49.4	3	+ 7.789	+ 0.424	84.2; 77.6	— 4	4861
4782	8.9		31	25.61	11	3.2108	0.0042	— 6	24	41.0	10	7.790	0.428	86.0; 86.9	— 6	5213
4783	9.8		31	34.96	1	3.1305	0.0034	— 2	42	18.3	1	7.802	0.417	89.7	— 2	5066
4784	8.9		31	42.88	6	3.1774	0.0039	— 4	52	37.3	2	7.813	0.423	86.8; 91.1	— 4	4865
4785	9.8		31	53.22	1	3.1327	0.0034	— 2	48	33.0	1	7.827	0.417	78.7	— 2	5068
4786	9	19	31	54.65	4	+ 3.1472	— 0.0036	— 3	28	58.8	3	+ 7.828	+ 0.419	89.1; 89.9	— 3	4658
4787	9.8		32	31.65	1	3.2016	0.0042	— 6	0	15.4	1	7.878	0.426	96.5	— 6	5217
4788	9.8		32	35.92	2	3.1720	0.0039	— 4	38	10.5	1	7.884	0.422	77.7	— 4	4870
4789	9.8		32	55.77	5	3.1463	0.0036	— 3	26	42.8	3	7.910	0.418	86.8; 84.9	— 3	4670
4790	8.9		33	7.70	2	3.2268	0.0045	— 7	10	7.3	2	7.926	0.429	86.6	— 7	5023
4791	8	19	33	13.72	5	+ 3.2227	— 0.0045	— 6	58	49.5	5	+ 7.934	+ 0.428	84.2	— 7	5024
4792	8.9		33	13.89	11	3.2087	0.0043	— 6	20	9.8	6	7.935	0.426	87.1; 84.7	— 6	5221
4793	8.9		33	30.30	12	3.2105	0.0044	— 6	25	29.0	5	7.957	0.426	86.3; 83.6	— 6	5222
4794	9.8		33	38.22	8	3.2095	0.0043	— 6	22	41.4	3	7.967	0.426	87.9; 95.6	— 6	5223
4795	9.8		33	40.28	8	3.1448	0.0036	— 3	22	51.6	5	7.970	0.417	85.5	— 3	4674
4796	7	19	33	58.12	5	+ 3.1952	— 0.0042	— 5	43	18.9	4	+ 7.994	+ 0.424	81.2; 82.4	— 5	5036
4797	8.9		33	59.43	4	3.1352	0.0035	— 2	56	3.6	4	7.996	0.416	83.6	— 2	5075
4798	9		34	25.06	1	3.1147	0.0033	— 1	58	54.3	1	8.030	0.413	90.6	— 1	5077
4799	8		34	25.16	4	3.1647	0.0039	— 4	18	34.4	4	8.030	0.419	88.4	— 4	4877
4800	8		34	39.84	8	3.1182	0.0034	— 2	8	45.3	7	8.050	0.413	82.9; 83.8	— 2	5079

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		h	m	s		s	s	°	′	″		″	″		°	
4801	9.8	19	34	39.90	1	+ 3.1194	— 0.0034	— 2	12	9.7	1	+ 8.050	+ 0.413	76.6	— 2	5078
4802	8.9		34	44.14	2	3.1399	0.0036	— 3	9	29.0	2	8.055	0.416	86.6	— 3	4680
4803	8		34	48.40	2	3.1622	0.0039	— 4	11	45.5	2	8.061	0.419	87.1	— 4	4880
4804	9.8		34	50.04	4	3.2115	0.0044	— 6	29	10.2	2	8.063	0.425	88.1	— 6	5230
4805	8.9		34	51.99	11	3.1276	0.0035	— 2	35	11.0	6	8.066	0.414	85.4; 87.9	— 2	5080
4806	8	19	34	56.96	13	+ 3.1277	— 0.0035	— 2	35	28.4	7	+ 8.072	+ 0.414	84.3; 81.2	— 2	5081
4807	9		35	19.11	1	3.1296	0.0035	— 2	40	43.3	1	8.102	0.414	88.7	— 2	5085
4808	8		35	27.55	5	3.1700	0.0040	— 4	34	4.5	5	8.113	0.419	84.4	— 4	4883
4809	8.9		35	53.49	8	3.2084	0.0045	— 6	21	28.8	6	8.148	0.424	84.3; 85.0	— 6	5237
4810	9.8		36	20.48	1	3.1334	0.0036	— 2	51	55.7	1	8.184	0.414	89.7	— 2	5090
4811	8.9	19	36	20.57	1	+ 3.2169	— 0.0046	— 6	45	18.9	1	+ 8.184	+ 0.425	83.6	— 6	5241
4812	8.9		36	49.40	6	3.2092	0.0045	— 6	24	7.0	6	8.222	0.423	90.0	— 6	5242
4813	9		37	21.09	2	3.1304	0.0036	— 2	43	47.5	2	8.265	0.412	88.7	— 2	5093
4814	8.9		37	31.90	9	3.1200	0.0035	— 2	14	36.1	6	8.279	0.411	81.9; 79.1	— 2	5094
4815	8		37	50.75	12	3.1210	0.0035	— 2	17	29.4	6	8.304	0.411	81.6	— 2	5095
4816	9.8	19	38	31.21	8	+ 3.1341	— 0.0037	— 2	54	28.0	6	+ 8.358	+ 0.412	85.0; 83.0	— 2	5099
4817	8.9		38	31.54	7	3.1444	0.0038	— 3	23	29.5	3	8.358	0.413	87.2	— 3	4695
4818	9		38	42.92	3	3.1151	0.0035	— 2	1	3.6	3	8.373	0.409	89.9	— 2	5102
4819	8.9		38	50.22	9	3.1321	0.0037	— 2	49	1.9	4	8.383	0.411	85.0	— 2	5103
4820	9.8		38	51.69	5	3.1125	0.0035	— 1	53	33.1	4	8.385	0.409	83.4; 81.9	— 1	3815
4821	7.8	19	38	52.71	8	+ 3.1429	— 0.0038	— 3	19	23.8	5	+ 8.386	+ 0.413	85.8; 85.2	— 3	4696
4822	9.8		38	55.25	4	3.1746	0.0042	— 4	48	41.1	4	8.389	0.417	88.6	— 4	4903
4823	9		38	58.98	4	3.2182	0.0047	— 6	51	0.2	4	8.394	0.423	89.4	— 6	5254
4824	8		39	9.47	6	3.1102	0.0035	— 1	47	16.6	4	8.408	0.408	81.9; 82.8	— 1	3819
4825	8.9		39	20.68	2	3.1635	0.0041	— 4	17	53.2	2	8.423	0.415	90.6	— 4	4905
4826	7	19	39	35.65	2	+ 3.1395	— 0.0038	— 3	10	20.0	2	+ 8.443	+ 0.412	86.6	— 3	4701
4827	9.8		39	49.48	2	3.1672	0.0042	— 4	28	28.6	2	8.461	0.415	86.1	— 4	4907
4828	9.8		39	50.93	1	3.1483	0.0039	— 3	35	6.8	1	8.463	0.413	76.6	— 3	4702
4829	9		39	51.34	2	3.1328	0.0038	— 2	51	19.8	2	8.464	0.411	92.6	— 2	5109
4830	9		39	55.37	1	3.1290	0.0037	— 2	40	36.1	1	8.469	0.410	88.6	— 2	5110
4831	9	19	40	23.81	1	+ 3.1723	— 0.0043	— 4	43	14.7	1	+ 8.506	+ 0.415	95.6	— 4	4915
4832	8		40	31.14	6	3.1560	0.0041	— 3	57	19.0	6	8.516	0.413	83.0	— 4	4916
4833	9.8		40	41.95	7	3.1265	0.0037	— 2	33	49.8	7	8.530	0.409	84.6	— 2	5112
4834	8		40	55.88	7	3.2130	0.0048	— 6	38	5.7	7	8.549	0.420	85.0	— 6	5263
4835	8		41	10.19	6	3.1167	0.0036	— 2	6	4.2	5	8.568	0.407	80.1	— 2	5115
4836	8	19	41	24.64	5	+ 3.1893	— 0.0045	— 5	31	39.7	5	+ 8.587	+ 0.417	84.3	— 5	5060
4837	8.9		41	29.50	5	3.1186	0.0037	— 2	11	44.3	3	8.593	0.407	81.2; 82.6	— 2	5116
4838	9.8		41	45.70	1	3.1144	0.0036	— 1	59	45.8	1	8.615	0.407	90.6	— 2	5118
4839	9		41	50.63	2	3.1288	0.0038	— 2	40	40.1	2	8.621	0.408	88.6	— 2	5119
4840	7.8		42	25.19	6	3.1170	0.0037	— 2	7	25.0	4	8.666	0.406	81.8; 83.8	— 2	5124
4841	8.9	19	42	35.99	13	+ 3.1734	— 0.0044	— 4	47	37.4	9	+ 8.681	+ 0.414	87.4; 88.7	— 4	4926
4842	9		42	50.50	3	3.2059	0.0048	— 6	19	32.5	3	8.700	0.418	88.0	— 6	5269
4843	9.8		42	51.51	5	3.1135	0.0036	— 1	57	18.6	3	8.701	0.405	85.0; 87.3	— 2	5125
4844	8.9		43	15.33	14	3.1740	0.0044	— 4	49	44.5	3	8.732	0.413	89.1; 86.7	— 4	4936
4845	9.8		43	24.86	6	3.1112	0.0036	— 1	51	8.6	5	8.745	0.405	84.4; 83.4	— 1	3836
4846	8	19	43	30.26	2	+ 3.1611	— 0.0043	— 4	13	19.7	2	+ 8.752	+ 0.411	82.7	— 4	4938
4847	9.8		43	40.26	5	3.1760	0.0045	— 4	55	41.2	2	8.765	0.413	84.6; 82.7	— 4	4940
4848	8.9		43	50.43	6	3.1240	0.0038	— 2	27	39.2	5	8.778	0.406	85.8	— 2	5130
4849	9.8		43	59.53	3	3.1217	0.0038	— 2	21	16.4	3	8.790	0.405	82.3	— 2	5131
4850	7		44	27.61	5	3.1773	0.0045	— 4	59	48.3	1	8.827	0.412	83.1; 76.6	— 5	5075

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
4851	9.8	19	44	28.27	3	+ 3.1769	— 0.0045	— 4	58	43.2	2	+ 8.828	+ 0.412	86.7	— 5	5076
4852	8.9		44	30.51	5	3.1742	0.0045	— 4	51	0.2	2	8.831	0.412	89.2	— 4	4948
4853	9.8		44	35.23	7	3.1343	0.0040	— 2	57	27.4	7	8.837	0.407	90.8	— 3	4728
4854	9		44	38.68	6	3.1292	0.0039	— 2	42	48.9	5	8.842	0.406	86.6	— 2	5132
4855	9		44	42.01	1	3.1765	0.0045	— 4	57	39.4	1	8.846	0.412	86.7	— 5	5078
4856	8	19	44	44.17	1	+ 3.1386	— 0.0040	— 3	9	43.1	1	+ 8.849	+ 0.407	86.6	— 3	4730
4857	9.8		44	44.42	8	3.1756	0.0045	— 4	55	5.1	4	8.849	0.412	88.8; 90.6	— 4	4950
4858	7		44	55.92	13	3.1302	0.0039	— 2	45	47.3	8	8.864	0.406	84.8; 84.0	— 2	5133
4859	9		45	7.96	1	3.1268	0.0039	— 2	36	10.9	1	8.880	0.405	88.7	— 2	5134
4860	9.8		45	9.70	1	3.1110	0.0037	— 1	50	48.6	1	8.882	0.403	80.6	— 1	3841
4861	9	19	45	40.87	3	+ 3.2120	— 0.0050	— 6	39	6.5	3	+ 8.923	+ 0.416	89.6	— 6	5284
4862	8.7		45	49.26	5	3.1237	0.0039	— 2	27	33.2	5	8.934	0.404	81.6	— 2	5136
4863	9		45	57.31	2	3.1338	0.0040	— 2	56	19.3	1	8.944	0.405	81.6; 86.6	— 3	4734
4864	8.9		46	16.43	7	3.1950	0.0048	— 5	51	31.7	5	8.969	0.413	82.3; 84.3	— 5	5091
4865	9.8		46	20.95	4	3.2023	0.0049	— 6	12	9.9	4	8.975	0.414	86.7	— 6	5286
4866	8.9	19	46	29.93	6	+ 3.2095	— 0.0050	— 6	32	54.5	6	+ 8.987	+ 0.415	84.7	— 6	5290
4867	7		46	51.01	8	3.1947	0.0049	— 5	50	54.0	3	9.014	0.412	83.5; 82.3	— 5	5096
4868	8.9		46	55.13	4	3.2215	0.0052	— 7	7	19.8	4	9.020	0.416	84.4	— 7	5091
4869	9.8		46	57.58	8	3.2044	0.0050	— 6	18	46.0	4	9.023	0.413	87.4; 83.4	— 6	5294
4870	9.8		46	58.70	6	3.1743	0.0046	— 4	52	53.6	5	9.024	0.410	88.5	— 4	4960
4871	9	19	46	59.26	5	+ 3.2045	— 0.0050	— 6	18	59.3	3	+ 9.025	+ 0.413	89.9	— 6	5295
4872	6.7		47	1.56	8	3.1438	0.0042	— 3	25	25.9	8	9.028	0.406	83.6	— 3	4742
4873	9.8		47	5.08	4	3.1329	0.0041	— 2	54	25.1	3	9.033	0.404	87.6; 91.3	— 2	5139
4874	8.9		47	14.66	7	3.1181	0.0039	— 2	11	42.8	6	9.045	0.402	82.9; 88.9	— 2	5141
4875	8.9		47	14.85	10	3.1354	0.0041	— 3	1	23.1	9	9.046	0.404	87.0; 88.1	— 3	4744
4876	9.8	19	47	33.12	1	+ 3.2201	— 0.0052	— 7	3	50.8	1	+ 9.069	+ 0.415	79.6	— 7	5094
4877	9		47	55.08	2	3.1876	0.0048	— 5	31	25.8	2	9.098	0.410	87.2	— 5	5100
4878	8		48	7.19	7	3.2120	0.0052	— 6	41	25.9	7	9.114	0.413	86.5	— 6	5300
4879	9		48	39.16	1	3.1216	0.0040	— 2	22	18.6	1	9.155	0.401	92.6	— 2	5144
4880	7		48	53.47	5	3.2193	0.0053	— 7	2	47.1	4	9.174	0.414	82.6; 83.4	— 7	5102
4881	9.8	19	49	15.45	2	+ 3.2187	— 0.0053	— 7	1	30.3	1	+ 9.202	+ 0.413	86.6; 93.6	— 7	5103
4882	8.9		49	41.65	6	3.1182	0.0040	— 2	12	40.8	5	9.236	0.400	82.4; 84.0	— 2	5147
4883	9		49	42.07	1	3.1123	0.0039	— 1	55	46.7	1	9.237	0.399	89.6	8ter B.	—1.575
4884	9.8		50	12.53	11	3.1748	0.0048	— 4	56	18.9	11	9.276	0.406	88.1	— 5	5114
4885	8		50	26.59	6	3.1410	0.0043	— 3	18	58.0	5	9.294	0.402	85.6; 87.4	— 3	4751
4886	9.8	19	50	35.95	9	+ 3.1265	— 0.0041	— 2	36	59.4	8	+ 9.306	+ 0.400	85.4	— 2	5149
4887	8.9		50	57.36	13	3.1760	0.0048	— 5	0	20.4	4	9.334	0.406	87.2; 84.2	— 5	5120
4888	7.8		50	58.79	8	3.2179	0.0054	— 7	0	46.6	7	9.336	0.411	87.6; 86.8	— 7	5115
4889	8.9		51	2.46	18	3.1202	0.0041	— 2	18	52.0	16	9.340	0.399	83.6; 82.5	— 2	5151
4890	9		51	31.86	2	3.1207	0.0041	— 2	20	30.0	2	9.378	0.398	92.6	— 2	5153
4891	8	19	51	32.30	11	+ 3.2125	— 0.0053	— 6	45	56.9	7	+ 9.379	+ 0.410	86.5	— 6	5319
4892	9.8		51	34.96	12	3.1862	0.0050	— 5	30	24.2	11	9.382	0.407	84.1; 84.8	— 5	5124
4893	8.9		51	49.31	11	3.2105	0.0053	— 6	40	22.3	7	9.401	0.410	85.3	— 6	5320
4894	8.9		51	50.86	12	3.1690	0.0047	— 4	40	38.1	9	9.403	0.404	87.4	— 4	4982
4895	9		51	59.00	3	3.1276	0.0042	— 2	40	49.7	3	9.413	0.399	89.3	— 2	5154
4896	8.7	19	52	8.13	5	+ 3.1246	— 0.0042	— 2	33	16.0	4	+ 9.425	+ 0.398	82.8	— 2	5155
4897	8.9		52	9.50	14	3.1689	0.0048	— 4	40	41.7	5	9.427	0.404	87.0; 85.2	— 4	4984
4898	7		52	14.62	5	3.1523	0.0046	— 3	52	34.7	5	9.434	0.402	83.2	— 3	4757
4899	9.8		52	42.15	1	3.2166	0.0055	— 6	58	47.2	1	9.469	0.410	79.6	— 7	5128
4900	9		52	49.85	5	3.1292	0.0042	— 2	45	48.3	4	9.479	0.398	89.1	— 2	5157

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
4901	9.8	19 53 3.68	3	+ 3.1724	− 0.0048	− 4 51 30.3	2	+ 9.497	+ 0.403	86.0; 90.6	− 4 4987
4902	9.8	53 10.24	2	3.2114	0.0054	− 6 44 14.0	1	9.505	0.408	83.6; 87.7	− 6 5326
4903	9	53 26.73	2	3.2017	0.0053	− 6 16 33.7	2	9.526	0.407	91.7	− 6 5327
4904	7.6	53 27.48	10	3.1196	0.0041	− 2 17 41.4	8	9.527	0.396	81.8; 83.1	− 2 5159
4905	9.8	53 29.92	7	3.1306	0.0043	− 2 50 4.6	5	9.530	0.398	83.6	− 2 5160
4906	8.9	19 53 30.20	1	+ 3.1084	− 0.0040	− 1 45 22.7	1	+ 9.531	+ 0.395	80.6	− 1 3875
4907	9.8	54 25.40	3	3.1129	0.0041	− 1 58 40.7	2	9.601	0.394	86.6; 85.1	− 2 5163
4908	8	54 28.79	4	3.1676	0.0048	− 4 38 19.9	4	9.606	0.401	84.4	− 4 4992
4909	8.9	54 41.43	3	3.1569	0.0047	− 4 7 30.3	3	9.622	0.400	86.0	− 4 4994
4910	9.8	54 41.72	2	3.1120	0.0041	− 1 56 8.7	1	9.622	0.394	89.6	− 2 5166
4911	9	19 54 56.94	3	+ 3.1258	− 0.0043	− 2 36 37.8	3	+ 9.642	+ 0.396	88.6	− 2 5167
4912	9.8	55 10.91	12	3.2101	0.0055	− 6 42 16.5	9	9.660	0.406	87.2	− 6 5339
4913	9.8	55 23.83	12	3.1133	0.0041	− 2 0 4.5	5	9.676	0.394	85.5; 84.0	− 2 5168
4914	9	55 25.18	1	3.2117	0.0055	− 6 47 9.1	1	9.678	0.406	87.6	− 6 5341
4915	9.8	55 27.32	10	3.1133	0.0041	− 2 0 20.6	4	9.681	0.393	85.7; 86.6	− 2 5169
4916	9	19 55 31.48	1	+ 3.2071	− 0.0055	− 6 33 55.5	1	+ 9.686	+ 0.405	87.7	− 6 5342
4917	9	55 36.57	2	3.2088	0.0055	− 6 39 2.8	1	9.692	0.406	87.7	− 6 5343
4918	6.7	55 49.02	7	3.1813	0.0051	− 5 19 16.5	7	9.708	0.402	83.8	− 5 5138
4919	8	56 20.61	8	3.1474	0.0046	− 3 40 28.9	6	9.748	0.397	83.2	− 3 4771
4920	9.8	56 51.95	2	3.1974	0.0054	− 6 6 59.3	2	9.788	0.403	86.7	− 6 5348
4921	8.9	19 56 53.19	7	+ 3.1737	− 0.0050	− 4 57 56.2	7	+ 9.790	+ 0.400	81.5	− 5 5144
4922	8.9	57 4.69	14	3.1683	0.0050	− 4 42 10.2	7	9.805	0.399	89.3; 90.3	− 4 5003
4923	9.8	57 22.46	2	3.1480	0.0047	− 3 42 45.1	1	9.827	0.396	89.1; 86.6	− 3 4773
4924	8.9	57 24.30	20	3.1683	0.0050	− 4 42 22.0	10	9.830	0.398	87.5	− 4 5006
4925	9.8	57 49.62	2	3.2020	0.0055	− 6 21 20.4	2	9.862	0.402	88.2	− 6 5351
4926	9	19 58 36.34	8	+ 3.1262	− 0.0044	− 2 39 9.0	8	+ 9.921	+ 0.392	88.9	− 2 5175
4927	7.8	58 47.19	14	3.1668	0.0050	− 4 38 58.2	7	9.935	0.397	90.1	− 4 5010
4928	9.8	58 54.67	1	3.2133	0.0057	− 6 55 23.9	1	9.944	0.403	76.7	− 6 5360
4929	9.8	59 17.43	7	3.1994	0.0055	− 6 14 56.8	7	9.973	0.400	88.2	− 6 5366
4930	9.8	59 42.03	2	3.1894	0.0054	− 5 46 8.7	1	10.004	0.399	86.1; 95.6	− 5 5156
4931	7	19 59 52.84	4	+ 3.1618	− 0.0050	− 4 25 7.5	4	+ 10.018	+ 0.395	86.1	− 4 5013
4932	8	59 59.37	16	3.1140	0.0043	− 2 3 31.4	15	10.026	0.389	84.5	− 2 5178
4933	7.8	20 0 16.40	9	3.1687	0.0051	− 4 45 35.8	8	10.048	0.396	82.9; 83.6	− 4 5016
4934	9	0 49.96	1	3.2077	0.0057	− 6 40 50.3	1	10.090	0.400	93.6	− 6 5374
4935	8.9	1 27.10	1	3.1627	0.0051	− 4 28 41.9	1	10.137	0.393	83.6	− 4 5022
4936	9	20 1 37.02	5	+ 3.1248	− 0.0045	− 2 36 26.0	4	+ 10.149	+ 0.389	88.7	− 2 5184
4937	7.6	1 42.02	5	3.2161	0.0058	− 7 6 26.8	5	10.155	0.400	81.7	− 7 5177
4938	9	1 52.35	3	3.1273	0.0045	− 2 43 47.6	3	10.168	0.389	89.0	− 2 5186
4939	8.9	2 2.72	5	3.1477	0.0049	− 3 44 39.2	5	10.182	0.391	80.6	− 3 4788
4940	9.8	2 2.98	4	3.1713	0.0052	− 4 54 41.6	4	10.182	0.394	82.2	− 4 5024
4941	9?	20 2 12.15	1	+ 3.1821	− 0.0054	− 5 26 51.6	1	+ 10.193	+ 0.395	78.7	− 5 5169
4942	8.9	3 4.82	1	3.1451	0.0049	− 3 37 25.4	1	10.259	0.390	76.6	− 3 4792
4943	8	3 4.89	13	3.1315	0.0046	− 2 56 59.5	12	10.260	0.388	82.8	− 3 4793
4944	9.8	3 6.91	5	3.1386	0.0048	− 3 18 10.6	5	10.262	0.389	83.2	− 3 4794
4945	8.9	3 11.02	7	3.1122	0.0044	− 1 59 19.0	7	10.267	0.385	84.5	− 2 5188
4946	8.9	20 3 20.12	3	+ 3.1273	− 0.0046	− 2 44 29.9	3	+ 10.279	+ 0.387	82.0	− 2 5189
4947	9	3 51.10	1	3.1175	0.0045	− 2 15 25.2	1	10.317	0.385	89.6	− 2 5192
4948	8.9	4 5.99	7	3.2032	0.0058	− 6 30 57.1	7	10.336	0.396	86.5	− 6 5391
4949	9.8	4 16.67	2	3.1119	0.0044	− 1 58 47.4	2	10.349	0.384	80.6	− 2 5195
4950	9.8	4 30.56	4	3.1332	0.0047	− 3 2 42.0	3	10.367	0.387	84.2; 86.7	− 3 4803

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
4951	9.8	20	4	35.32	2	+ 3.1495	− 0.0050	− 3	51	31.6	1	+ 10.373	+ 0.389	84.6; 82.6	− 3	4804
4952	7		4	42.19	21	3.2015	0.0058	− 6	26	30.9	5	10.381	0.395	85.2; 81.9	− 6	5394
4953	8.9		4	46.56	2	3.1509	0.0050	− 3	55	42.4	2	10.387	0.389	82.7	− 4	5042
4954	9		4	50.08	4	3.1707	0.0053	− 4	54	57.3	4	10.391	0.391	86.7	− 4	5043
4955	8.9		5	12.12	19	3.2026	0.0058	− 6	30	17.6	6	10.418	0.395	84.1; 85.0	− 6	5397
4956	9.8	20	5	19.25	14	+ 3.2022	− 0.0058	− 6	29	24.3	6	+ 10.427	+ 0.394	87.2; 89.2	− 6	5399
4957	9		5	19.77	4	3.1712	0.0054	− 4	56	40.9	3	10.428	0.391	88.9; 89.6	− 5	5181
4958	8		6	14.23	2	3.2066	0.0060	− 6	43	24.2	2	10.496	0.394	83.2	− 6	5403
4959	9		6	29.74	1	3.1959	0.0058	− 6	11	47.9	1	10.515	0.392	86.7	− 6	5407
4960	8		6	31.08	8	3.1390	0.0049	− 3	21	14.8	7	10.517	0.385	83.9; 84.9	− 3	4817
4961	8.9	20	7	17.69	6	+ 3.1035	− 0.0044	− 1	34	11.8	6	+ 10.574	+ 0.380	84.7	− 1	3921
4962	9		7	18.66	1	3.1758	0.0055	− 5	12	6.7	1	10.576	0.389	94.6	− 5	5189
4963	9.8		7	38.13	5	3.1653	0.0053	− 4	40	58.4	4	10.600	0.387	84.6; 86.6	− 4	5059
4964	9.8		7	40.45	1	3.1487	0.0051	− 3	51	5.6	1	10.603	0.385	76.6	− 3	4820
4965	9		7	51.68	1	3.1608	0.0053	− 4	27	32.4	1	10.617	0.386	91.6	− 4	5063
4966	9.8	20	7	53.84	3	+ 3.1115	− 0.0045	− 1	58	38.1	3	+ 10.619	+ 0.380	87.3	− 2	5204
4967	8		8	0.58	9	3.1997	0.0059	− 6	24	32.9	7	10.628	0.391	85.4	− 6	5411
4968	9.8		8	1.82	4	3.1996	0.0059	− 6	24	24.0	2	10.629	0.391	85.7	− 6	5412
4969	8.9		8	5.43	6	3.2122	0.0061	− 7	2	7.2	6	10.634	0.393	81.0	− 7	5224
4970	9		8	6.28	5	3.1222	0.0047	− 2	31	1.9	4	10.635	0.381	86.6	− 2	5205
4971	8	20	8	38.29	10	+ 3.1702	− 0.0055	− 4	56	26.9	9	+ 10.674	+ 0.387	85.2; 86.1	− 5	5194
4972	9.8		8	39.61	2	3.1021	0.0044	− 1	30	21.3	1	10.676	0.378	90.7	− 1	3933
4973	8.9		8	52.99	3	3.2037	0.0060	− 6	37	29.4	3	10.692	0.391	86.7	− 6	5421
4974	8		8	53.43	5	3.1488	0.0051	− 3	51	55.3	4	10.693	0.384	81.6	− 3	4825
4975	6		9	0.97	6	3.1892	0.0058	− 5	54	3.6	6	10.702	0.389	83.2	− 5	5196
4976	9.8	20	9	1.75	5	+ 3.1206	− 0.0047	− 2	26	42.0	4	+ 10.703	+ 0.380	85.8; 85.1	− 2	5211
4977	9		9	6.68	2	3.1334	0.0049	− 3	5	37.0	1	10.709	0.382	89.7	− 3	4828
4978	8.7		9	27.79	7	3.1301	0.0048	− 2	55	49.4	7	10.735	0.381	81.5	− 2	5213
4979	9		9	44.15	2	3.1328	0.0049	− 3	4	6.1	1	10.755	0.381	89.7	− 3	4834
4980	7.8		10	13.31	9	3.1091	0.0045	− 1	52	1.8	5	10.791	0.378	85.4; 82.8	− 1	3935
4981	9	20	10	15.91	1	+ 3.1624	− 0.0054	− 4	34	17.3	1	+ 10.794	+ 0.384	91.6	− 4	5074
4982	8.9		10	23.29	12	3.1105	0.0046	− 1	56	24.7	6	10.804	0.378	83.7; 85.6	− 2	5216
4983	9		10	31.68	2	3.1202	0.0047	− 2	26	9.4	2	10.814	0.379	88.7	− 2	5218
4984	9.8		10	31.73	2	3.2082	0.0062	− 6	52	50.8	1	10.814	0.389	87.7	− 6	5427
4985	8		10	32.71	3	3.1482	0.0052	− 3	51	24.2	2	10.815	0.382	79.3; 80.2	− 3	4838
4986	9	20	10	45.12	1	+ 3.1740	− 0.0056	− 5	9	41.5	1	+ 10.830	+ 0.385	91.7	− 5	5205
4987	8.9		10	59.20	2	3.1418	0.0051	− 3	31	58.4	2	10.848	0.381	76.6	− 3	4840
4988	8.9		11	10.61	7	3.1201	0.0048	− 2	25	59.8	5	10.862	0.378	84.8; 83.2	− 2	5221
4989	8		11	12.63	4	3.2058	0.0062	− 6	46	27.4	3	10.864	0.388	91.9; 93.3	− 6	5433
4990	9.8		11	35.49	2	3.1753	0.0057	− 5	14	32.6	1	10.892	0.384	93.1; 94.6	− 5	5210
4991	8.9	20	11	44.13	4	+ 3.2096	− 0.0063	− 6	58	20.9	3	+ 10.903	+ 0.388	81.7; 82.4	− 7	5242
4992	8		11	49.88	10	3.2038	0.0062	− 6	41	3.4	7	10.910	0.387	87.2; 84.6	− 6	5440
4993	8.7		11	49.98	8	3.1725	0.0056	− 5	5	58.5	7	10.910	0.384	86.0	− 5	5216
4994	9		11	52.61	1	3.1215	0.0048	− 2	30	32.6	1	10.913	0.377	83.6	− 2	5228
4995	9.8		12	1.03	2	3.1350	0.0050	− 3	12	0.6	2	10.923	0.379	78.6	− 3	4841
4996	8.9	20	12	5.74	2	+ 3.1171	− 0.0047	− 2	17	12.9	2	+ 10.929	+ 0.376	83.7	− 2	5230
4997	7.8		12	31.94	6	3.2100	0.0063	− 7	0	33.6	3	10.961	0.387	83.0	− 7	5246
4998	8.9		12	39.93	9	3.1636	0.0055	− 4	39	49.1	8	10.971	0.382	86.2; 87.4	− 4	5087
4999	8.9		12	50.54	5	3.1942	0.0060	− 6	13	1.9	5	10.984	0.385	87.5	− 6	5448
5000	8		13	1.72	5	3.1530	0.0053	− 4	7	42.3	5	10.998	0.380	84.0	− 4	5090

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
5001	8.9	20	13	15.42	3	+ 3.1211	— 0.0048	— 2	30	2.5	3	+ 11.014	+ 0.376	80.6	— 2	5236
5002	9.8		13	20.64	2	3.1467	0.0052	— 3	48	26.5	2	11.020	0.379	79.1	— 3	4849
5003	9		13	31.96	1	3.1103	0.0047	— 1	56	59.3	1	11.034	0.374	90.6	— 2	5238
5004	9		13	37.90	4	3.1233	0.0049	2	37	0.7	2	11.042	0.376	88.2	— 2	5239
5005	8.9		13	38.02	6	3.1235	0.0049	— 2	37	24.2	5	11.042	0.376	83.8; 82.9	— 2	5240
5006	8.9	20	13	39.39	1	+ 3.1050	— 0.0046	— 1	40	34.7	1	+ 11.043	+ 0.373	90.8	— 1	3953
5007	9.8		13	56.26	1	3.1906	0.0060	— 6	3	7.7	1	11.064	0.383	87.7	— 6	5450
5008	7.8		14	2.79	6	3.2040	0.0063	— 6	44	8.0	4	11.072	0.385	87.2	— 6	5451
5009	9		14	13.27	1	3.1227	0.0049	— 2	35	15.0	1	11.084	0.375	88.6	— 2	5245
5010	9		14	16.37	1	3.1259	0.0049	— 2	45	10.5	1	11.088	0.375	88.7	— 2	5246
5011	9	20	14	19.15	2	+ 3.1802	— 0.0058	— 5	31	51.5	1	+ 11.092	+ 0.382	86.1; 95.6	— 5	5232
5012	9.8		14	19.81	5	3.1876	0.0060	— 5	54	37.9	3	11.092	0.383	84.7; 81.0	— 5	5233
5013	9.8		14	31.17	3	3.1869	0.0060	— 5	52	26.3	1	11.106	0.382	86.7; 93.7	— 5	5234
5014	8.9		14	41.19	7	3.1080	0.0047	— 1	50	3.7	7	11.118	0.372	83.1	— 1	3959
5015	8		14	44.87	9	3.2036	0.0063	— 6	43	51.0	3	11.123	0.384	84.1	— 6	5455
5016	9	20	14	46.17	7	+ 3.1347	— 0.0051	— 3	12	39.7	7	+ 11.124	+ 0.376	88.8	— 3	4856
5017	9		15	0.87	1	3.1114	0.0047	— 2	0	38.7	1	11.142	0.372	90.6	— 2	5254
5018	9.8		15	2.89	3	3.2078	0.0064	— 6	56	59.3	3	11.145	0.384	81.3	— 7	5267
5019	9.8		15	10.33	2	3.1188	0.0048	— 2	23	31.7	2	11.154	0.373	81.2	— 2	5256
5020	9.8		15	11.09	1	3.1458	0.0053	— 3	47	2.7	1	11.155	0.376	78.7	— 3	4860
5021	8	20	15	19.66	3	+ 3.1731	— 0.0058	— 5	11	4.7	3	+ 11.165	+ 0.380	86.6	— 5	5239
5022	8.9		15	29.70	4	3.2076	0.0064	— 6	56	49.2	3	11.177	0.384	85.7	— 7	5269
5023	9.8		15	35.62	1	3.1902	0.0061	— 6	3	46.9	1	11.184	0.381	86.7	— 6	5458
5024	9.8		15	55.94	3	3.1502	0.0054	— 4	0	57.8	3	11.209	0.376	82.6	— 4	5108
5025	9.8		16	14.26	5	3.1818	0.0059	— 5	38	44.4	3	11.231	0.380	81.7; 83.7	— 5	5242
5026	9	20	16	14.82	1	+ 3.1309	— 0.0051	— 3	1	29.8	1	+ 11.232	+ 0.373	89.7	— 3	4867
5027	8		16	19.11	8	3.1782	0.0059	— 5	27	48.5	8	11.237	0.379	87.5	— 5	5245
5028	9		16	25.80	2	3.1373	0.0052	— 3	21	31.7	1	11.245	0.374	84.2	— 3	4869
5029	8		16	37.13	8	3.1898	0.0061	— 6	3	31.0	7	11.259	0.380	83.3	— 6	5462
5030	9		16	44.47	3	3.1333	0.0051	— 3	9	18.8	3	11.268	0.373	89.4	— 3	4873
5031	8	20	16	50.21	5	+ 3.1534	— 0.0055	— 4	11	43.4	5	+ 11.275	+ 0.375	83.8	— 4	5110
5032	7		17	15.64	8	3.1816	0.0060	— 5	39	2.2	6	11.305	0.378	82.3	— 5	5253
5033	9.8		17	51.18	2	3.1422	0.0053	— 3	37	29.8	2	11.348	0.370	84.2	— 3	4879
5034	8.9		18	18.34	4	3.2108	0.0065	— 7	10	10.1	2	11.381	0.381	84.7; 81.7	— 7	5282
5035	8.9		18	21.37	9	3.1681	0.0058	— 4	58	17.0	8	11.384	0.375	86.0; 87.2	— 5	5262
5036	8	20	18	28.92	6	+ 3.1094	— 0.0048	— 1	55	43.7	6	+ 11.393	0.368	82.1	— 1	3976
5037	9		18	30.53	3	3.2109	0.0066	— 7	10	38.0	2	11.395	+ 0.380	87.3	— 7	5283
5038	9		18	33.47	1	3.1352	0.0052	— 3	16	19.3	1	11.399	0.371	76.6	— 3	4881
5039	8.9		18	54.01	6	3.1456	0.0054	— 3	48	44.8	6	11.423	0.372	81.6	— 3	4882
5040	9.8		19	15.27	3	3.1296	0.0051	— 2	59	9.2	3	11.449	0.370	82.0	— 3	4885
5041	7	20	19	26.91	6	+ 3.1335	— 0.0052	— 3	11	20.7	6	+ 11.463	+ 0.370	87.2	— 3	4888
5042	9		19	38.26	1	3.1854	0.0061	— 5	53	12.8	1	11.476	0.376	95.7	— 5	5267
5043	8		19	43.97	5	3.1539	0.0056	— 4	15	19.2	5	11.483	0.372	85.2	— 4	5124
5044	8.9		19	45.30	3	3.1458	0.0054	— 3	50	7.4	1	11.485	0.371	78.7	— 3	4890
5045	8.9		19	48.70	8	3.1927	0.0063	— 6	16	10.6	8	11.489	0.377	86.4	— 6	5478
5046	8.9	20	19	58.10	3	+ 3.1664	— 0.0058	— 4	54	26.6	2	+ 11.500	+ 0.373	83.0; 86.1	— 4	5126
5047	8.7		19	59.57	4	3.1981	0.0064	— 6	32	54.8	4	11.502	0.377	84.7	— 6	5479
5048	9		20	6.34	2	3.1891	0.0062	— 6	5	7.4	2	11.510	0.376	83.2	— 6	5481
5049	9		20	15.01	2	3.1262	0.0051	— 2	48	57.9	1	11.520	0.368	88.6	— 2	5274
5050	9		20	32.05	1	3.1615	0.0057	— 4	39	51.4	1	11.541	0.372	91.6	— 4	5130

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ′ ″		″	″		°
5051	9	20 20 41.10	2	+ 3.1245	− 0.0051	− 2 43 50.2	1	+ 11.551	+ 0.368	88.6	− 2 5278
5052	9	20 41 67	2	3.1418	0.0054	− 3 38 14.0	1	11.552	0.370	83.1; 89.7	− 3 4899
5053	9	20 49.23	1	3.1362	0.0053	− 3 20 43.8	1	11.561	0.369	91.7	− 3 4900
5054	8	20 52.44	17	3.1214	0.0050	− 2 34 46.7	11	11.565	0.367	84 0	− 2 5279
5055	7	21 12.82	3	3.1095	0.0048	− 1 57 3.0	3	11.589	0.365	80.3	− 2 5281
5056	8.9	20 21 13.03	6	+ 3.1446	− 0.0054	− 3 47 21.3	2	+ 11.589	+ 0.369	82.7	− 3 4901
5057	8	21 13.40	15	3.1202	0.0050	− 2 30 40.0	5	11.590	0.366	86.1; 84.9	− 2 5282
5058	7.8	21 13.94	16	3.1199	0.0050	− 2 29 42.8	6	11.590	0.366	85.6; 86.6	− 2 5283
5059	9	21 18.71	1	3.1182	0.0050	− 2 24 23.7	1	11.596	0.366	92.6	− 2 5284
5060	7.8	21 23.98	11	3.1879	0.0062	− 6 2 53.5	4	11.602	0.374	86.0; 82.9	− 6 5487
5061	8	20 21 26.22	6	+ 3.2075	− 0.0066	− 7 4 3.0	6	+ 11.605	+ 0.376	85.3	− 7 5301
5062	9.8	21 31.90	6	3.1854	0.0062	− 5 55 12.2	2	11.612	0.374	88.5; 87.2	− 6 5488
5063	8	21 37.95	6	3.1768	0.0060	− 5 28 25.1	6	11.619	0.373	86.3	− 5 5275
5064	9.8	21 42.64	2	3.1654	0.0058	− 4 53 3.1	2	11.625	0.371	84.7	− 4 5141
5065	9.8	21 44.53	1	3.1703	0.0059	− 5 8 17.5	1	11.627	0.372	94.6	− 5 5276
5066	9	20 21 51.23	1	+ 3.1592	− 0.0057	− 4 33 47.5	1	+ 11.635	+ 0.370	86.6	− 4 5142
5067	8.9	21 54.49	1	3.1728	0.0060	− 5 16 27.1	1	11.639	0.372	94.6	− 5 5278
5068	6	22 7.80	8	3.1437	0.0055	− 3 45 11.7	5	11.654	0.368	82.7; 84.7	− 3 4906
5069	9.8	22 9.74	1	3.1496	0.0056	− 4 3 48.8	1	11.657	0.369	82.6	− 4 5146
5070	8.9	22 10.57	7	3.1856	0.0062	− 5 56 37.7	3	11.658	0.373	87.7	− 6 5492
5071	9.8	20 22 12.90	9	+ 3.1872	− 0.0063	− 6 1 51.6	4	+ 11.661	+ 0.373	83.1; 84.9	− 6 5493
5072	8	22 17.86	6	3.1641	0.0058	− 4 49 31.6	4	11.666	0.370	82.8; 81.9	− 4 5147
5073	9?	22 35.44	1	3.1282	0.0052	− 2 56 31.8	1	11.687	0.366	89.7	− 3 4913
5074	7.8	22 36.44	4	3.1128	0.0049	− 2 7 49.4	3	11.688	0.364	83.7; 82.6	− 2 5286
5075	8	23 22.18	8	3.1592	0.0058	− 4 34 50.3	7	11.743	0.368	85.3; 86.5	− 4 5153
5076	6	20 23 22.72	8	+ 3.1345	− 0.0053	− 3 17 0.5	8	+ 11.743	+ 0.365	83.9	− 3 4918
5077	9.8	23 35.68	2	3.1191	0.0051	− 2 28 27.6	1	11.759	0.363	84.7; 88.7	− 2 5291
5078	8.9	23 40.96	2	3.1401	0.0054	− 3 34 55.6	1	11.765	0.366	82.7; 88.7	− 3 4923
5079	8	23 42.22	8	3.1639	0.0059	− 4 50 5.2	5	11.766	0.369	84.8; 87.1	− 4 5154
5080	9.8	23 45.58	4	3.1284	0.0052	− 2 57 57.0	4	11.770	0.364	86.7	− 3 4924
5081	9.8	20 23 58.39	1	+ 3.1699	− 0.0060	− 5 9 14.1	1	+ 11.786	+ 0.369	94.6	− 5 5288
5082	9.8	23 58.51	5	3.1590	0.0058	− 4 34 42.0	1	11.786	0.368	82.8; 86.6	− 4 5156
5083	8	24 12.89	6	3.1819	0.0062	− 5 47 24.7	6	11.803	0.370	84.7	− 5 5291
5084	9	24 16.30	1	3.1884	0.0064	− 6 7 52.6	1	11.807	0.371	95.7	− 6 5503
5085	8.9	24 16.92	11	3.1902	0.0064	− 6 13 35.1	8	11.807	0.371	88.2	− 6 5504
5086	9.8	20 24 18.84	4	+ 3.1913	− 0.0064	− 6 16 58.1	2	+ 11.810	+ 0.371	90.7; 91.7	− 6 5505
5087	8.9	24 44.18	4	3.1078	0.0049	− 1 52 52.8	4	11.839	0.361	84.4	− 1 3989
5088	9.8	24 52.14	6	3.1288	0.0053	− 2 59 39.9	6	11.849	0.363	82.3	− 3 4928
5089	8.7	25 34.90	10	3.1856	0.0064	− 6 0 24.8	10	11.899	0.369	83.6	− 6 5511
5090	8.9	25 38.66	7	3.1447	0.0056	− 3 50 43.1	7	11.904	0.364	81.4	− 3 4930
5091	9.8	20 25 43.12	2	+ 3.1531	− 0.0057	− 4 17 35.4	2	+ 11.909	+ 0.365	86.1	− 4 5166
5092	6.7	25 44.14	6	3.1787	0.0062	− 5 38 51.0	5	11.910	0.368	86.5; 84.5	− 5 5299
5093	9.8	26 3.57	4	3.1189	0.0051	− 2 28 53.2	3	11.933	0.360	83.2; 84.0	− 2 5297
5094	9.8	26 4.18	3	3.1152	0.0051	− 2 17 3.7	3	11.933	0.360	87.3	− 2 5298
5095	9.8	26 12.64	5	3.1592	0.0059	− 4 37 17.5	4	11.943	0.365	84.2	− 4 5169
5096	9.8	20 26 20.27	3	+ 3.1193	− 0.0051	− 2 30 15.7	2	+ 11.952	+ 0.360	85.1; 82.2	− 2 5301
5097	8	26 28.33	5	3.1073	0.0049	− 1 52 2.1	5	11.962	0.359	81.6	− 1 3991
5098	8.9	26 31.65	5	3.1771	0.0062	− 5 34 42.4	3	11.966	0.367	87.3; 90.0	− 5 5302
5099	9.8	26 36.05	1	3.1506	0.0057	− 4 10 20.9	1	11.971	0.363	80.7	− 4 5172
5100	9.8	26 49.44	5	3.1199	0.0052	− 2 32 20.5	3	11.986	0.360	81.5; 78.6	− 2 5303

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	'	"		"	"		°	
5101	9	20	26	57.48	3	+3.2080	−0.0068	−7	13	0.0	3	+11.996	+0.370	87.0	−7	5324
5102	7		27	2.41	7	3.1968	0.0066	−6	37	38.9	5	12.002	0.368	86.0	−6	5521
5103	8.9		27	8.57	4	3.1427	0.0056	−3	45	52.5	3	12.009	0.362	85.2; 86.2	−3	4940
5104	9.8		27	15.33	5	3.1803	0.0063	−5	45	42.0	4	12.017	0.366	89.9	−5	5305
5105	9.8		27	57.70	3	3.1433	0.0056	−3	47	59.4	3	12.066	0.361	82.0	−3	4945
5106	8.9	20	27	59.14	5	+3.1374	−0.0055	−3	29	7.1	4	+12.068	+0.360	82.9; 84.4	−3	4946
5107	8.9		28	10.89	8	3.1893	0.0065	−6	15	10.9	7	12.081	0.366	88.8; 84.8	−6	5523
5108	8.9		28	18.54	8	3.1972	0.0067	−6	40	42.0	5	12.090	0.367	87.0; 91.1	−6	5525
5109	8.9		28	24.09	1	3.1453	0.0057	−3	54	51.1	1	12.097	0.361	79.7	−3	4949
5110	9		28	35.27	4	3.1222	0.0052	−2	40	40.2	2	12.110	0.358	88.7	−2	5310
5111	9.8	20	28	35.75	1	+3.1127	−0.0051	−2	10	1.3	1	+12.110	+0.357	78.6	−2	5311
5112	9		28	41.90	5	3.1236	0.0053	−2	45	13.6	2	12.117	0.358	88.7	−2	5312
5113	9.8		28	47.92	3	3.1656	0.0061	−5	0	16.5	3	12.124	0.362	84.6	−5	5311
5114	8		29	0.96	10	3.1830	0.0064	−5	56	13.7	10	12.140	0.364	86.6	−6	5528
5115	8.9		29	1.19	11	3.1974	0.0067	−6	42	3.6	5	12.140	0.366	85.9; 82.5	−6	5527
5116	9	20	29	6.89	2	+3.1785	−0.0063	−5	42	1.3	1	+12.146	+0.364	91.7	−5	5314
5117	8.9		29	13.07	7	3.1181	0.0052	−2	27	52.8	7	12.154	0.356	82.4	−2	5315
5118	8		29	20.05	5	3.1678	0.0061	−5	7	53.0	4	12.162	0.362	87.3; 88.4	−5	5315
5119	9		29	24.22	2	3.1248	0.0053	−2	47	56.7	1	12.166	0.357	88.6	−2	5316
5120	8.9		29	25.86	2	3.1417	0.0056	−3	44	2.4	2	12.168	0.359	86.2; 80.7	−3	4955
5121	9.8	20	29	51.84	1	+3.1080	−0.0050	−1	55	20.7	1	+12.198	+0.354	86.7	−2	5319
5122	9.8		30	1.72	2	3.1554	0.0059	−4	28	41.0	2	12.210	0.360	86.1	−4	5195
5123	8.9		30	2.66	8	3.1799	0.0064	−5	47	22.7	6	12.211	0.363	86.9; 87.9	−5	5321
5124	9.8		30	18.03	3	3.1587	0.0060	−4	39	41.2	2	12.229	0.360	88.0; 93.6	−4	5197
5125	6.5		30	28.64	13	3.1272	0.0054	−2	57	51.7	13	12.241	0.356	85.7	−3	4961
5126	9.8	20	31	11.42	4	+3.2055	−0.0070	−7	11	8.9	8	+12.290	+0.364	87.4	−7	5349
5127	8.9		31	28.21	4	3.1604	0.0060	−4	46	14.7	3	12.310	0.359	87.6; 86.0	−4	5202
5128	7.8		31	49.71	8	3.1609	0.0061	−4	48	2.5	5	12.335	0.358	85.8	−4	5204
5129	9.8		31	54.80	6	3.1312	0.0055	−3	11	39.8	5	12.340	0.355	81.5	−3	4969
5130	8		32	1.94	3	3.1632	0.0061	−4	55	52.6	2	12.349	0.358	79.3; 80.7	−5	5330
5131	8	20	32	5.05	5	+3.1387	−0.0056	−3	36	22.8	5	+12.352	+0.355	83.5	−3	4971
5132	9.8		32	6.31	4	3.2035	0.0069	−7	6	5.4	3	12.354	0.363	82.7; 81.3	−7	5354
5133	9.8		32	36.86	4	3.1654	0.0062	−5	3	31.1	4	12.389	0.358	88.4	−5	5334
5134	6.7		32	45.86	3	3.1707	0.0063	−5	21	0.7	1	12.399	0.358	83.3; 76.6	−5	5335
5135	8.9		32	47.89	7	3.1935	0.0068	−6	34	42.3	5	12.401	0.361	89.0; 89.6	−6	5545
5136	8.7	20	32	55.12	9	+3.1941	−0.0068	−6	36	44.8	4	+12.410	+0.361	88.1; 85.5	−6	5546
5137	7.6		32	58.68	18	3.1248	0.0054	−2	50	2.5	17	12.414	0.352	85.3	−2	5328
5138	9.8		33	14.57	2	3.1692	0.0063	−5	16	33.0	2	12.432	0.357	86.7	−5	5337
5139	9.8		33	48.68	12	3.1874	0.0067	−6	16	8.0	9	12.471	0.359	87.4	−6	5550
5140	9.8		33	51.35	7	3.1864	0.0066	−6	13	14.2	2	12.474	0.358	89.8; 86.7	−6	5552
5141	6.7	20	33	57.64	4	+3.1286	−0.0055	−3	4	31.6	4	+12.481	+0.352	86.9	−3	4981
5142	8.9		34	12.04	2	3.1600	0.0059	−4	14	40.2	2	12.498	0.354	86.1	−4	5216
5143	9		34	24.45	1	3.1576	0.0061	−4	39	49.6	1	12.512	0.354	91.6	−4	5218
5144	8.9		34	30.85	1	3.2044	0.0070	−7	12	28.6	1	12.519	0.360	87.7	−7	5372
5145	9		34	54.72	5	3.1175	0.0053	−2	28	48.0	2	12.546	0.349	89.1	−2	5333
5146	8.9	20	34	57.44	1	+3.1550	−0.0060	−4	31	48.1	1	+12.549	+0.353	95.6	−4	5221
5147	9.8		34	57.92	6	3.1752	0.0065	−5	37	51.6	6	12.550	0.356	86.2	−5	5344
5148	8		35	2.20	3	3.1897	0.0068	−6	25	25.7	3	12.555	0.357	87.4	−6	5558
5149	9.8		35	8.74	14	3.1220	0.0054	−2	48	50.7	8	12.562	0.350	86.9; 88.6	−2	5335
5150	9.8		35	20.73	1	3.1080	0.0051	−1	57	30.5	1	12.576	0.348	78.6	−2	5336

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
5151	8.9	20	35	21.85	3	+ 3.1989	− 0.0070	− 6	55	44.2	3	+ 12.577	+ 0.357	84.7	− 7	5378
5152	9.8		35	28.52	1	3.1619	0.0062	− 4	55	10.8	1	12.585	0.354	76.6	− 5	5347
5153	8.9		35	32.04	5	3.1419	0.0058	− 3	49	36.2	5	12.588	0.351	79.3	− 3	4987
5154	9.8		35	35.38	1	3.1707	0.0064	− 5	24	2.0	1	12.592	0.354	78.7	− 5	5348
5155	8.9		35	36.85	9	3.1168	0.0053	− 2	26	52.9	7	12.594	0.348	87.5	− 2	5338
5156	9.8	20	35	42.31	4	+ 3.1250	− 0.0055	− 2	53	51.5	1	+ 12.600	+ 0.349	79.6; 80.6	− 2	5340
5157	9		35	59.72	1	3.1059	0.0051	− 1	50	50.7	1	12.620	0.347	86.7	− 1	4031
5158	8		36	9.16	8	3.1764	0.0065	− 5	43	23.1	5	12.631	0.354	83.7	− 5	5349
5159	8		36	13.07	16	3.1223	0.0054	− 2	45	20.9	10	12.635	0.348	86.2; 84.9	− 2	5343
5160	8		36	23.61	22	3.1230	0.0054	− 2	47	33.3	7	12.647	0.348	85.4; 87.1	− 2	5345
5161	9	20	36	28.45	1	+ 3.1564	− 0.0061	− 4	37	59.1	1	+ 12.652	+ 0.352	91.6	− 4	5231
5162	9.8		36	33.98	1	3.1062	0.0051	− 1	52	4.3	1	12.659	0.346	80.6	− 1	4034
5163	9.8		36	58.21	4	3.1788	0.0065	− 5	35	39.7	3	12.686	0.353	89.2; 91.3	− 5	5354
5164	9.8		37	1.81	6	3.1931	0.0069	− 6	39	15.2	4	12.690	0.355	83.4; 88.0	− 6	5566
5165	8.9		37	7.09	1	3.1252	0.0055	− 2	55	21.3	1	12.696	0.347	76.6	− 3	4995
5166	9	20	37	8.96	1	+ 3.1289	− 0.0056	− 3	7	47.5	1	+ 12.698	+ 0.348	91.7	− 3	4996
5167	9.8		37	10.19	1	3.1608	0.0062	− 4	53	13.8	1	12.700	0.351	78.7	− 4	5236
5168	9		37	26.40	3	3.1657	0.0063	− 5	9	35.9	1	12.718	0.351	89.3; 86.7	− 5	5355
5169	8		37	28.18	4	3.1243	0.0055	− 2	52	49.8	3	12.720	0.347	82.4; 84.3	− 2	5351
5170	8		37	31.76	7	3.1880	0.0068	− 6	23	4.5	7	12.724	0.354	88.5	− 6	5567
5171	7	20	37	35.64	6	+ 3.1813	− 0.0067	− 6	1	17.5	6	+ 12.728	+ 0.353	81.4	− 6	5568
5172	8.9		37	49.78	5	3.1543	0.0061	− 4	32	28.0	4	12.744	0.350	85.8; 88.2	− 4	5240
5173	7.8		37	54.97	5	3.1508	0.0060	− 4	20	50.4	4	12.750	0.349	86.6; 89.2	− 4	5241
5174	9		37	57.02	4	3.1665	0.0064	− 5	12	57.7	3	12.752	0.351	88.9; 89.6	− 5	5358
5175	9.8		38	0.46	1	3.1851	0.0068	− 6	14	18.3	1	12.756	0.353	93.7	− 6	5570
5176	9.8	20	38	22.13	6	+ 3.1223	− 0.0055	− 2	46	31.7	5	+ 12.781	+ 0.345	83.8; 84.5	− 2	5357
5177	9.8		38	38.92	2	3.1047	0.0051	− 1	48	1.8	2	12.799	0.343	80.6	− 1	4041
5178	8		38	51.36	3	3.2022	0.0072	− 7	11	50.2	3	12.813	0.354	84.0	− 7	5389
5179	8.9		38	53.60	7	3.1912	0.0069	− 6	35	30.5	6	12.816	0.352	85.0; 86.4	− 6	5573
5180	9.8		39	14.78	1	3.1599	0.0062	− 4	52	27.1	1	12.840	0.348	76.6	− 4	5248
5181	9.8	20	39	18.62	1	+ 3.1637	− 0.0063	− 5	5	3.5	1	+ 12.844	+ 0.349	82.7	− 5	5364
5182	8.9		39	23.64	2	3.1058	0.0051	− 1	51	55.2	1	12.850	0.342	79.6; 78.6	− 1	4046
5183	8.9		39	29.67	1	3.1406	0.0058	− 3	48	33.8	1	12.856	0.346	80.7	− 3	5007
5184	9.8		39	31.37	8	3.1212	0.0055	− 2	43	42.1	6	12.858	0.344	87.4; 88.3	− 2	5361
5185	8.9		39	37.79	6	3.1933	0.0070	− 6	43	45.4	5	12.865	0.352	86.9; 88.9	− 6	5578
5186	9	20	39	37.82	4	+ 3.1367	− 0.0058	− 3	35	53.9	4	+ 12.866	+ 0.345	82.7	− 3	5009
5187	9		40	10.10	1	3.1745	0.0065	− 5	41	54.3	1	12.902	0.349	87.7	− 5	5367
5188	9.8		40	18.30	10	3.1874	0.0069	− 6	25	4.0	8	12.911	0.350	88.5; 91.4	− 6	5579
5189	8.9		40	23.46	4	3.1560	0.0062	− 4	40	39.2	4	12.916	0.347	85.4	− 4	5256
5190	8.9		40	27.82	7	3.1527	0.0061	− 4	29	37.5	7	12.921	0.346	83.5	− 4	5257
5191	8	20	40	35.17	9	+ 3.1286	− 0.0056	− 3	9	10.3	9	+ 12.930	+ 0.343	85.5	− 3	5017
5192	7.6		40	49.20	11	3.1245	0.0055	− 2	55	29.5	11	12.945	0.342	83.3	− 3	5018
5193	8		40	51.44	7	3.1103	0.0053	− 2	7	55.1	7	12.948	0.341	84.2	− 2	5366
5194	8.9		40	54.22	4	3.1710	0.0065	− 5	31	18.0	3	12.951	0.348	85.9; 87.0	− 5	5372
5195	4.5		41	24.24	9	3.1698	0.0065	− 5	27	59.6	5	12.984	0.347	84.8	− 5	5378
5196	9.8	20	41	45.94	3	+ 3.2016	− 0.0072	− 7	14	31.1	1	+ 13.008	+ 0.350	85.0; 87.6	− 7	5408
5197	8.9		41	46.73	4	3.1909	0.0070	− 6	38	46.9	4	13.009	0.348	85.5	− 6	5587
5198	8.9		41	48.53	6	3.1876	0.0069	− 6	27	45.8	4	13.011	0.348	91.2; 89.0	− 6	5588
5199	9		41	51.40	4	3.1342	0.0058	− 3	28	46.8	4	13.014	0.342	88.0	− 3	5022
5200	8.9		41	56.18	1	3.1271	0.0056	− 3	4	55.9	1	13.020	0.341	90.8	− 3	5023

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	′	″		″	″		°
5201	7	20	41	56.67	4	+ 3.1627	− 0.0064	− 5	4	47.8	4	+ 13.020	+ 0.345	83.7	− 5 5382
5202	9.8		41	57.53	1	3.1090	0.0052	− 2	3	59.7	1	13.021	0.339	86.7	− 2 5370
5203	9.8		42	3.32	5	3.2015	0.0072	− 7	14	25.6	4	13.028	0.349	83.9; 82.9	− 7 5410
5204	8		42	12.77	1	3.1439	0.0060	− 4	1	47.6	1	13.038	0.343	76.6	− 4 5264
5205	8		42	16.42	1	3.1651	0.0064	− 5	13	2.6	1	13.042	0.345	94.6	− 5 5388
5206	9.8	20	42	38.86	11	+ 3.1198	− 0.0055	− 2	40	39.4	10	+ 13.067	+ 0.340	86.7	− 2 5371
5207	9		42	46.68	4	3.1232	0.0056	− 2	52	13.2	3	13.076	0.340	86.4; 89.7	− 2 5373
5208	9		43	2.69	1	3.1732	0.0066	− 5	41	27.5	1	13.093	0.345	87.7	− 5 5386
5209	8.9		43	19.66	2	3.1490	0.0061	− 4	20	5.2	1	13.112	0.342	88.2; 80.7	− 4 5270
5210	7.8		43	25.30	2	3.1990	0.0072	− 7	8	31.3	2	13.118	0.347	85.2	− 7 5413
5211	8.9	20	43	28.83	5	+ 3.1486	− 0.0061	− 4	18	58.8	3	+ 13.122	+ 0.342	84.7; 88.0	− 4 5271
5212	9.8		43	36.48	1	3.1713	0.0066	− 5	35	27.0	1	13.131	0.344	93.6	− 5 5390
5213	9.8		43	38.82	1	3.1068	0.0052	− 1	57	21.7	1	13.133	0.337	86.7	− 2 5375
5214	9		43	42.22	2	3.1199	0.0055	− 2	41	43.5	1	13.137	0.338	90.7	− 2 5376
5215	9.8		43	52.65	5	3.1270	0.0057	− 3	5	55.5	4	13.148	0.339	84.7; 86.2	− 3 5038
5216	9.8	20	44	0.84	8	+ 3.1706	− 0.0066	− 5	33	41.3	7	+ 13.157	+ 0.343	85.6; 84.4	− 5 5393
5217	9		44	15.18	3	3.1841	0.0069	− 6	19	28.0	3	13.173	0.344	89.4	− 6 5600
5218	8		44	22.73	3	3.1647	0.0065	− 5	14	13.2	2	13.182	0.342	83.3; 81.7	− 5 5396
5219	8.9		44	28.09	4	3.1360	0.0059	− 3	37	3.2	3	13.187	0.339	81.6; 83.8	− 3 5042
5220	9		44	28.24	3	3.1228	0.0056	− 2	52	2.0	3	13.188	0.337	89.7	− 2 5381
5221	9.8	20	44	33.10	4	+ 3.1392	− 0.0059	− 3	48	6.6	4	+ 13.193	+ 0.339	83.2	− 3 5043
5222	9.8		44	34.76	4	3.1287	0.0057	− 3	12	13.2	3	13.195	0.338	82.7; 84.7	− 3 5044
5223	8.7		45	1.36	4	3.1556	0.0063	− 4	44	2.2	3	13.223	0.340	83.4; 85.7	− 4 5280
5224	6		45	3.94	9	3.1793	0.0068	− 6	4	25.7	7	13.227	0.343	84.9	− 6 5604
5225	8.9		45	29.46	3	3.1644	0.0065	− 5	14	39.0	2	13.255	0.341	86.0; 90.6	− 5 5401
5226	8	20	45	39.98	4	+ 3.1845	− 0.0070	− 6	22	54.8	2	+ 13.266	+ 0.343	86.2	− 6 5605
5227	9.8		45	47.76	16	3.1198	0.0055	− 2	42	37.4	16	13.275	0.335	85.5	− 2 5390
5228	6		45	47.84	6	3.1769	0.0068	− 5	57	23.0	3	13.275	0.342	84.3; 86.7	− 6 5606
5229	8		45	59.56	6	3.1626	0.0065	− 5	9	9.1	4	13.288	0.340	84.7; 81.7	− 5 5402
5230	8		46	5.66	3	3.1365	0.0059	− 3	40	1.7	2	13.294	0.337	86.7; 83.7	− 3 5048
5231	8	20	46	14.80	5	+ 3.1840	− 0.0070	− 6	22	4.7	3	+ 13.304	+ 0.342	88.9; 90.0	− 6 5608
5232	9.8		46	18.01	1	3.1996	0.0073	− 7	15	17.0	1	13.308	0.343	87.7	− 7 5426
5233	8.9		46	47.14	7	3.1193	0.0055	− 2	41	39.0	2	13.339	0.334	82.7; 88.7	− 2 5392
5234	9		47	0.54	1	3.1703	0.0067	− 5	36	42.8	1	13.354	0.339	87.7	− 5 5407
5235	9.8		47	11.39	3	3.1898	0.0071	− 6	41	32.4	3	13.366	0.341	89.7	− 6 5615
5236	9.8	20	47	14.67	2	+ 3.1354	− 0.0059	− 3	37	6.9	2	+ 13.369	+ 0.335	78.6	− 3 5055
5237	9.8		47	32.95	7	3.1240	0.0056	− 2	58	25.7	7	13.389	0.333	88.1	− 3 5057
5238	7.8		47	45.66	3	3.1594	0.0064	− 4	59	48.2	3	13.403	0.337	84.3	− 5 5410
5239	9.8		47	51.80	4	3.1482	0.0062	− 4	21	54.6	4	13.410	0.335	86.2	− 4 5294
5240	8.9		48	14.53	4	3.1758	0.0068	− 5	55	11.6	3	13.434	0.338	86.2; 88.7	− 6 5619
5241	9	20	48	39.56	4	+ 3.1206	− 0.0056	− 2	47	25.5	4	+ 13.461	+ 0.332	88.2	− 2 5399
5242	8.9		48	41.95	7	3.1040	0.0052	− 1	49	49.8	3	13.464	0.330	83.2	− 1 4073
5243	7.8		48	56.00	7	3.1040	0.0052	− 1	49	48.9	4	13.479	0.329	88.2	− 1 4075
5244	9.8		49	1.87	4	3.1143	0.0055	− 2	25	47.8	3	13.486	0.330	82.6	− 2 5403
5245	9.8		49	5.72	1	3.1849	0.0071	− 6	29	34.7	1	13.490	0.338	76.7	− 6 5627
5246	8.9	20	49	12.84	3	+ 3.1462	− 0.0062	− 4	16	10.6	2	+ 13.497	+ 0.334	82.6	− 4 5303
5247	9.8		49	24.88	4	3.1513	0.0063	− 4	34	8.2	3	13.510	0.334	81.9; 83.6	− 4 5304
5248	9		50	0.94	4	3.1650	0.0066	− 5	22	14.4	3	13.549	0.334	86.9	− 5 5417
5249	7.8		50	1.51	3	3.1416	0.0061	− 4	1	14.5	2	13.550	0.332	80.3; 79.0	− 4 5307
5250	9		50	20.68	3	3.1657	0.0066	− 5	25	2.0	1	13.570	0.334	87.0	− 5 5421

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
5251	8.9	20 50 22.09	9	+ 3.1187	— 0.0055	— 2 24 32.0	6	+ 13.572	+ 0.328	82.3; 81.5	— 2 5409
5252	8	50 27.82	4	3.1434	0.0061	— 4 8 0.3	2	13.578	0.332	82.4	— 4 5311
5253	9.8	50 39.87	5	3.1918	0.0073	— 6 55 48.7	5	13.591	0.336	82.7	— 7 5450
5254	9.8	50 49.16	2	3.1490	0.0063	— 4 27 38.3	2	13·601	0.332	84.1	— 4 5315
5255	9	50 54.02	3	3.1110	0.0054	— 2 15 7.7	2	13.606	0.327	93.7	— 2 5411
5256	9	20 51 4.22	2	+ 3.1246	— 0.0057	— 3 2 56.8	2	+ 13.617	+ 0.329	89.7	— 3 5075
5257	8	51 13.40	10	3.1357	0.0060	— 3 41 51.5	8	13.627	0.330	81.9; 83.4	— 3 5076
5258	8.9	51 22.70	8	3.1187	0.0056	— 2 42 31.0	3	13.637	0.328	86.9; 85.0	— 2 5413
5259	9.8	51 27.25	7	3.1189	0.0056	— 2 43 6.3	5	13.642	0.328	87.4; 88.1	— 2 5414
5260	9.8	51 44.02	8	3.1862	0.0072	— 6 38 14.7	7	13.660	0.334	88.6; 90.3	— 6 5637
5261	8.9	20 51 45.46	7	+ 3.1224	— 0.0057	— 2 55 40.4	7	+ 13.661	+ 0.327	85.1	— 3 5079
5262	9	52 6.62	4	3.1105	0.0054	— 2 14 12.8	2	13.684	0.326	92.5; 91.2	— 2 5416
5263	9.8	52 11.28	6	3.1131	0.0055	— 2 23 14.7	4	13.689	0.326	87.0; 90.2	— 2 5417
5264	7.8	52 28.11	5	3.1458	0.0062	— 4 18 18.9	5	13.707	0.329	83.7	— 4 5321
5265	8	52 33.59	6	3.1368	0.0060	— 3 46 50.6	4	13.712	0.328	81.8; 79.4	— 3 5084
5266	8.9	20 52 52.11	4	+ 3.1516	— 0.0064	— 4 38 56.8	4	+ 13.732	+ 0.329	85.2	— 4 5323
5267	9.8	52 52.38	1	3.1870	0.0072	— 6 42 46.2	1	13.732	0.333	79.7	— 6 5641
5268	9	52 54.26	2	3.1271	0.0058	— 3 13 11.8	2	13.734	0.326	84.6	— 3 3085
5269	8.9	53 19.36	2	3.1052	0.0053	— 1 55 56.8	2	13.761	0.324	83.7	— 2 5421
5270	8.9	53 21.26	3	3.1548	0.0065	— 4 50 56·9	2	13.763	0.329	78.6; 79.7	— 4 5324
5271	9.8	20 53 47.78	3	+ 3.1744	— 0.0069	— 6 0 20.0	2	+ 13.791	+ 0.330	84.7; 87.7	— 6 5646
5272	9.8	54 11.01	4	3.1782	0.0070	— 6 14 5.8	4	13.816	0.330	85.7	— 6 5649
5273	6.7	54 12.14	10	3.1782	0.0069	— 5 56 37.6	6	13.817	0.329	85.3; 84.7	— 6 5650
5274	6	54 14.65	8	3.1604	0.0066	— 5 11 34.6	8	13.820	0.328	86.4	— 5 5433
5275	8.9	54 20.45	3	3.1711	0.0069	— 5 49 29.7	2	13.826	0.329	82.0	— 5 5434
5276	8	20 54 52.22	5	+ 3.1384	— 0.0061	— 3 54 32.2	5	+ 13.859	+ 0.325	81.3	— 4 5332
5277	9.8	54 58.49	1	3.1471	0.0063	— 4 25 37.1	1	13.866	0.326	91.6	— 4 5334
5278	8.9	55 8.10	16	3.1226	0.0057	— 2 58 59.5	15	13.876	0.323	85.4	— 3 5092
5279	9.8	55 15.30	5	3.1046	0.0053	— 1 54 43.3	4	13.884	0.321	83.1; 84.2	— 2 5426
5280	8.7	55 22.87	4	3.1499	0.0064	— 4 36 0.9	3	13.891	0.325	83.9; 86.3	— 4 5337
5281	9.8	20 55 43.63	4	+ 3.1455	— 0.0063	— 4 20 51.2	4	+ 13.913	+ 0.324	83.7	— 4 5340
5282	9	55 52.09	3	3.1227	0.0057	— 2 59 51.6	2	13.922	0.322	90.0; 89.2	— 3 5095
5283	9	56 12.24	5	3.1222	0.0057	— 2 58 23.6	3	13.943	0.321	86.9; 85.3	— 3 5097
5284	9	56 12.34	1	3.1098	0.0054	— 2 14 5.7	1	13.943	0.320	93.7	— 2 5428
5285	9.8	56 52.09	3	3.1838	0.0073	— 6 38 3.9	3	13.985	0.327	94.7	— 6 5659
5286	8	20 56 55.60	7	+ 3.1021	— 0.0053	— 1 46 51.9	7	+ 13.989	+ 0.318	82.8	— 1 4098
5287	9.8	57 4.73	1	3.1579	0.0066	— 5 6 31.4	1	13.998	0.324	86.7	— 5 5446
5288	8.7	57 5.49	5	3.1704	0.0069	— 5 50 50.6	4	13.999	0.325	81.9; 83.2	— 5 5447
5289	9.8	57 7.85	2	3.1189	0.0057	— 2 47 5.7	1	14.002	0.320	88.6	— 2 5432
5290	8	57 9.67	13	3.1232	0.0058	— 3 2 41.0	10	14.003	0.320	85.9	— 3 5101
5291	7.8	20 57 15.85	9	+ 3.1190	— 0.0057	— 2 47 41.2	8	+ 14.010	+ 0.319	86.3	— 2 5433
5292	8	57 16.99	7	3.1066	0.0054	— 2 3 10.0	7	14.011	0.318	84.9	— 2 5434
5293	9.8	57 18.86	7	3.1849	0.0073	— 6 42 53.8	3	14.013	0.326	89.6; 88.7	— 6 5661
5294	9.8	57 19.37	1	3.1155	0.0056	— 2 35 2.9	1	14.014	0.319	86.7	— 2 5435
5295	8.9	57 37.87	4	3.1412	0.0062	— 4 7 38.4	4	14.033	0.321	82.4	— 4 5348
5296	5.6	20 57 43.81	8	+ 3.1777	— 0.0071	— 6 17 48.8	7	+ 14.039	+ 0.325	85.3; 86.6	— 6 5664
5297	9	58 18.36	4	3.1211	0.0057	— 2 55 53.5	3	14.075	0.318	86.7; 89.7	— 3 5108
5298	9	58 19.55	2	3.1317	0.0060	— 3 34 7.2	2	14.076	0.319	84.2	— 3 5109
5299	8.9	58 26.47	9	3.1606	0.0067	— 5 17 53.0	6	14.083	0.322	86.6; 85.5	— 5 5452
5300	9	58 26.77	2	3.1229	0.0058	— 3 2 19.2	2	14.084	0.318	91.1	— 3 5110

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
5301	9.8	20	58	39.69	5	+ 3.1600	— 0.0067	— 5	16	14.6	4	+ 14.097	+ 0.322	86.1; 88.4	— 5	5456
5302	9.8		58	49.30	2	3.1653	0.0068	— 5	35	8.7	2	14.107	0.322	81.7	— 5	5458
5303	9		59	1.24	2	3.1826	0.0073	— 6	37	21.0	2	14.120	0.323	95.7	— 6	5667
5304	8.7		59	14.22	7	3.1526	0.0065	— 4	50	21.5	7	14.133	0.320	82.8	— 4	5355
5305	9.8		59	17.57	2	3.1747	0.0071	— 6	9	29.6	2	14.136	0.322	81.7	— 6	5670
5306	9	20	59	21.53	3	+ 3.1212	— 0.0057	— 2	56	49.7	3	+ 14.140	+ 0.317	90.7	— 3	5116
5307	9		59	28.43	4	3.1823	0.0073	— 6	37	12.7	1	14.148	0.323	93.7; 91.8	— 6	5671
5308	9.8		59	46.94	7	3.1821	0.0073	— 6	37	7.1	3	14.167	0.322	89.2; 88.0	— 6	5672
5309	9		59	55.57	3	3.1842	0.0073	— 6	44	40.7	3	14.176	0.322	85.7	— 6	5673
5310	8.9		59	58.25	4	3.1722	0.0070	— 6	1	44.4	4	14.178	0.321	81.7	— 6	5674
5311	9.8	21	0	7.04	6	+ 3.1757	— 0.0071	— 6	14	28.3	5	+ 14.187	+ 0.321	88.9	— 6	5676
5312	9		0	33.06	3	3.1869	0.0074	— 6	55	28.4	3	14.214	0.322	84.4	— 7	5490
5313	9.8		0	41.35	4	3.1187	0.0057	— 2	48	54.7	4	14.223	0.314	87.9	— 2	5453
5314	8.7		1	22.06	5	3.1720	0.0070	— 6	3	18.3	5	14.264	0.319	82.3	— 6	5683
5315	9.8		1	25.01	1	3.1535	0.0066	— 4	56	5.8	1	14.268	0.317	86.7	— 5	5473
5316	8	21	1	28.49	11	+ 3.1139	— 0.0056	— 2	32	4.9	10	+ 14.271	+ 0.318	84.4	— 2	5456
5317	9		1	32.17	4	3.1770	0.0072	— 6	21	38.9	4	14.275	0.319	95.0	— 6	5684
5318	9		1	41.58	2	3.1541	0.0066	— 4	58	51.5	1	14.284	0.317	86.7	— 5	5474
5319	9.8		2	3.50	1	3.1745	0.0071	— 6	13	29.1	1	14.307	0.318	79.6	— 6	5685
5320	8		2	34.65	6	3.1840	0.0074	— 6	48	49.6	6	14.339	0.318	86.2	— 6	5689
5321	6.7	21	2	37.81	4	+ 3.1716	— 0.0071	— 6	8	54.5	3	+ 14.342	+ 0.317	80.7; 82.0	— 6	5690
5322	8.9		2	47.55	8	3.1424	0.0063	— 4	17	23.5	7	14.352	0.314	82.4	— 4	5371
5323	8.9		2	59.30	5	3.1611	0.0068	— 5	26	15.2	5	14.364	0.316	89.3	— 5	5483
5324	8		3	2.70	8	3.1488	0.0063	— 4	22	42.2	2	14.367	0.314	82.7; 80.6	— 4	5372
5325	9.8		4	0.52	2	3.1358	0.0062	— 3	54	23.0	2	14.426	0.311	87.2	— 4	5376
5326	9.8	21	4	10.35	2	+ 3.1437	— 0.0064	— 4	23	53.9	2	+ 14.436	+ 0.312	92.2	— 4	5378
5327	9.8		4	18.54	2	3.1736	0.0072	— 6	13	54.4	1	14.444	0.315	95.7	— 6	5698
5328	8.9		4	20.08	11	3.1739	0.0072	— 6	15	3.7	6	14.446	0.315	86.3; 85.7	— 6	5699
5329	9		4	28.49	1	3.1128	0.0056	— 2	30	7.3	1	14.454	0.308	86.7	— 2	5472
5330	9		4	56.13	2	3.1577	0.0067	— 5	16	30.1	2	14.482	0.312	86.7	— 5	5489
5331	8.9	21	4	58.90	8	+ 3.1472	— 0.0065	— 4	37	46.3	3	+ 14.485	+ 0.311	82.7	— 4	5382
5332	9		5	4.22	4	3.1058	0.0054	— 2	4	31.8	3	14.490	0.307	88.6; 92.7	— 2	5474
5333	8		5	20.17	10	3.1149	0.0056	— 2	38	18.2	10	14.506	0.307	85.0	— 2	5476
5334	8.9		5	20.87	6	3.1012	0.0053	— 1	47	27.0	5	14.507	0.306	81.8; 80.9	— 1	4116
5335	8		5	21.04	4	3.1306	0.0060	— 3	36	34.0	4	14.507	0.309	81.2	— 3	5140
5336	8.9	21	5	33.62	8	+ 3.1222	— 0.0058	— 3	5	31.4	8	+ 14.520	0.308	87.2	— 3	5141
5337	8		5	38.12	6	3.1766	0.0073	— 6	27	13.1	6	14.524	+ 0.313	83.7	— 6	5705
5338	8.7		5	38.20	9	3.1742	0.0072	— 6	18	13.8	8	14.524	0.313	87.9; 87.0	— 6	5706
5339	9		5	40.38	3	3.1265	0.0059	— 3	21	53.0	3	14.527	0.308	88.7	— 3	5143
5340	9.8		6	1.36	1	3.1131	0.0056	— 2	32	18.1	1	14.548	0.306	86.7	— 2	5477
5341	9.8	21	6	1.88	1	+ 3.1537	— 0.0066	— 5	3	5.5	1	+ 14.548	+ 0.310	82.7	— 5	5495
5342	9		6	4.64	1	3.1018	0.0053	— 1	50	4.9	1	14.551	0.305	86.7	— 1	4121
5343	8.9		6	18.28	2	3.1493	0.0065	— 4	47	22.0	2	14.565	0.309	84.7	— 4	5389
5344	8.9		6	56.33	7	3.1486	0.0065	— 4	45	36.3	6	14.603	0.308	85.5	— 4	5392
5345	7.8		7	9.56	8	3.1761	0.0072	— 6	24	16.9	5	14.616	0.311	86.4; 83.9	— 6	5712
5346	7.8	21	7	15.45	1	+ 3.1840	— 0.0075	— 6	57	33.9	1	+ 14.622	+ 0.312	82.7	— 7	5518
5347	9.8		7	47.24	1	3.1780	0.0072	— 6	17	37.3	1	14.654	0.310	95.7	— 6	5715
5348	8.9		7	51.00	3	3.1241	0.0059	— 3	14	49.7	3	14.657	0.305	85.7	— 3	5155
5349	9.8		8	3.20	1	3.1410	0.0068	— 4	18	34.3	1	14.670	0.306	91.8	— 4	5396
5350	8		8	14.65	6	3.1754	0.0073	— 6	27	30.4	4	14.681	0.309	88.6	— 6	5719

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
5351	8.9	21	8	17.52	1	+ 3.1162	− 0.0057	− 2	45	36.9	1	+ 14.684	+ 0.303	92.7	− 2	5486
5352	8.9		8	37.75	2	3.1125	0.0056	− 2	31	49.6	2	14.704	0.302	91.2	− 2	5488
5353	7.8		8	44.16	2	3.1686	0.0071	− 6	2	49.3	2	14.710	0.308	80.2	− 6	5720
5354	8.7		8	49.67	8	3.1210	0.0058	− 3	4	8.8	8	14.716	0.303	84.8	− 3	5160
5355	8.7		9	3.22	7	3.1758	0.0073	− 6	30	20.1	3	14.729	0.308	83.4; 79.1	− 6	5722
5356	8.9	21	9	10.11	2	+ 3.1670	− 0.0071	− 5	57	40.6	1	+ 14.736	+ 0.307	86.7; 95.7	− 6	5725
5357	8		9	22.31	4	3.1205	0.0058	− 3	2	33.3	3	14.748	0.302	80.7	− 3	5162
5358	7.6		10	27.02	12	3.1055	0.0054	− 2	6	26.4	12	14.812	0.299	85.9	− 2	5495
5359	8		10	53.37	5	3.1469	0.0065	− 4	44	25.7	5	14.838	0.302	86.5	− 4	5404
5360	8		11	6.35	1	3.1647	0.0070	− 5	52	3.1	1	14.850	0.304	77.8	− 5	5507
5361	8	21	11	15.45	2	+ 3.1662	− 0.0071	− 5	58	12.6	2	+ 14.859	+ 0.304	89.2	− 6	5729
5362	8.7		11	17.85	2	3.1711	0.0072	− 6	16	51.8	2	14.862	0.304	86.2	− 6	5730
5363	8.9		11	35.93	2	3.1347	0.0062	− 3	58	50.9	2	14.879	0.300	86.7	− 4	5410
5364	9		11	43.04	2	3.1019	0.0053	− 1	53	26.2	2	14.886	0.297	89.7	− 1	4140
5365	9.8		11	47.33	1	3.1768	0.0074	− 6	39	2.0	1	14.890	0.304	96.7	− 6	5731
5366	8.9	21	11	51.32	1	+ 3.1137	− 0.0056	− 2	38	36.7	1	+ 14.894	+ 0.298	91.7	− 2	5499
5367	6.7		11	53.27	5	3.1510	0.0067	− 5	1	22.8	5	14.896	0.301	80.5	− 5	5512
5368	8.9		12	10.62	2	3.1377	0.0063	− 4	11	0.9	2	14.913	0.300	79.2	− 4	5413
5369	8.9		12	22.40	3	3.1291	0.0061	− 3	38	7.7	3	14.925	0.298	85.4	− 3	5172
5370	8		12	30.82	3	3.1810	0.0075	− 6	56	35.2	3	14.933	0.303	85.8	− 7	5536
5371	9	21	12	31.49	2	+ 3.1041	− 0.0054	− 2	2	13.9	2	+ 14.934	+ 0.296	90.7	− 2	5503
5372	8		13	6.02	8	3.1076	0.0055	− 2	16	20.1	7	14.967	0.295	84.3; 85.4	− 2	5505
5373	8		13	21.33	5	3.1656	0.0071	− 5	59	33.8	5	14.982	0.300	87.3	− 6	5733
5374	8.9		13	27.15	7	3.1248	0.0059	− 3	22	58.9	6	14.988	0.296	83.8	− 3	5176
5375	9.8		13	28.60	4	3.1740	0.0073	− 6	31	37.7	4	14.989	0.301	87.0	− 6	5735
5376	8.9	21	14	6.70	10	+ 3.1035	− 0.0054	− 2	0	45.4	7	+ 15.026	+ 0.293	88.6	− 2	5507
5377	9.8		14	21.21	4	3.1067	0.0055	− 2	13	19.3	1	15.040	0.293	87.7; 77.7	− 2	5510
5378	8.9		14	26.57	12	3.1026	0.0053	− 1	57	47.3	5	15.045	0.293	83.8	− 2	5511
5379	7.6		14	46.80	6	3.1506	0.0067	− 5	4	7.3	3	15.065	0.297	82.2; 80.0	− 5	5524
5380	9.8		14	55.98	2	3.1270	0.0060	− 3	32	51.4	2	15.073	0.294	82.2	− 3	5182
5381	9.8	21	15	18.28	1	+ 3.1622	− 0.0070	− 5	49	40.3	1	+ 15.095	+ 0.297	77.8	− 5	5528
5382	8.9		15	22.17	6	3.1493	0.0066	− 4	59	44.7	4	15.098	0.296	86.4; 89.4	− 5	5529
5383	8.9		15	31.31	3	3.1293	0.0061	− 3	42	31.6	2	15.107	0.294	82.7; 78.2	− 3	5184
5384	8		15	35.17	2	3.1443	0.0065	− 4	40	52.5	2	15.111	0.295	87.2	− 4	5433
5385	9		15	45.41	1	3.1017	0.0053	− 1	54	49.0	1	15.121	0.291	88.7	− 2	5518
5386	9.8	21	15	47.34	5	+ 3.1484	− 0.0066	− 4	57	15.1	2	+ 15.123	+ 0.295	81.9; 80.7	− 5	5533
5387	7.8		16	12.19	4	3.1281	0.0060	− 3	38	24.9	3	15.146	0.292	82.7; 84.4	− 3	5188
5388	7		16	17.59	7	3.1666	0.0072	− 6	8	37.5	6	15.152	0.296	84.6; 85.7	− 6	5743
5389	9		16	19.91	1	3.1095	0.0055	− 2	25	45.6	1	15.154	0.290	91.7	− 2	5520
5390	8.9		16	37.29	4	3.1188	0.0058	− 3	2	35.3	4	15.170	0.291	83.7	− 3	5192
5391	9.8	21	17	3.50	5	+ 3.1078	− 0.0055	− 2	19	28.2	5	+ 15.195	+ 0.289	87.1	− 2	5522
5392	9		17	23.38	3	3.1044	0.0054	− 2	6	28.5	3	15.214	0.288	86.7	− 2	5524
5393	8		17	30.66	5	3.1807	0.0076	− 7	5	50.4	4	15.221	0.295	83.7	− 7	5549
5394	8.9		17	33.46	5	3.1807	0.0076	− 7	5	51.1	1	15.224	0.295	83.7; 82.7	− 7	5550
5395	9		17	54.00	2	3.1092	0.0055	− 2	25	45.6	2	15.243	0.288	84.7	− 2	5525
5396	9.8	21	18	22.07	4	+ 3.1061	− 0.0054	− 2	13	58.6	4	+ 15.270	+ 0.287	90.4	− 2	5531
5397	7.8		18	23.28	5	3.1649	0.0071	− 6	5	41.3	5	15.271	0.293	82.8	− 6	5750
5398	8.9		18	24.39	6	3.1459	0.0066	− 4	51	13.8	6	15.272	0.291	82.4	− 4	5443
5399	7		18	36.28	1	3.1815	0.0062	− 3	54	44.9	1	15.283	0.289	79.7	− 4	5444
5400	8.9		18	47.52	2	3.1665	0.0072	− 6	12	55.6	1	15.294	0.292	80.2; 82.7	− 6	5754

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
5401	8.9	21	18	54.11	5	+3.1101	−0.0056	−2	30	15.2	4	+15.300	+0.287	84.8; 85.9	−2	5533
5402	9.8		20	8.30	5	3.1055	0.0054	−2	12	40.1	5	15.370	0.284	87.7	−2	5539
5403	8.9		20	15.31	7	3.1249	0.0060	−3	30	16.1	6	15.376	0.286	85.7; 84.8	−3	5206
5404	8		20	15.50	1	3.1704	0.0073	−6	31	5.4	1	15.377	0.290	96.7	−6	5757
5405	9.8		20	36.11	4	3.1210	0.0059	−3	15	16.2	4	15.396	0.285	79.7	−3	5208
5406	8	21	20	42.70	5	+3.1774	−0.0075	−6	59	51.5	5	+15.402	+0.290	83.9	−7	5563
5407	9		21	2.47	3	3.1060	0.0054	−2	15	2.4	2	15.420	0.283	89.7; 88.7	−2	5541
5408	8.9		21	34.36	3	3.1606	0.0070	−5	54	50.2	3	15.450	0.287	80.1	−6	5760
5409	8.9		21	39.58	1	3.1270	0.0060	−3	40	30.0	1	15.455	0.284	78.7	−3	5213
5410	8		21	40.50	2	3.1162	0.0055	−2	56	56.7	2	15.456	0.283	80.2	−3	5214
5411	8.9	21	21	48.01	2	+3.1640	−0.0071	−6	8	29.9	2	+15.458	+0.287	89.2	−6	5761
5412	7.8		22	7.27	2	3.1229	0.0059	−3	24	22.9	2	15.481	0.283	86.2	−3	5217
5413	9		22	52.69	1	3.1032	0.0058	−2	5	12.8	1	15.523	0.280	91.7	−2	5548
5414	8.9		23	42.78	2	3.1598	0.0070	−5	55	19.6	2	15.569	0.284	81.2	−6	5766
5415	8		23	57.73	11	3.1464	0.0066	−5	1	37.0	9	15.583	0.282	84.0; 82.3	−5	5564
5416	8.9	21	24	2.05	13	+3.1026	−0.0058	−2	3	33.9	13	+15.587	+0.278	85.1	−2	5551
5417	9		24	34.86	2	3.0992	0.0052	−1	50	13.7	2	15.617	0.278	88.7	−1	4171
5418	9		24	52.17	1	3.1054	0.0054	−2	15	32.4	1	15.632	0.277	88.7	−2	5554
5419	9		24	55.76	1	3.1248	0.0060	−3	33	14.9	1	15.636	0.279	92.6	−3	5231
5420	9.8		25	7.95	6	3.1468	0.0066	−5	3	7.7	2	15.647	0.280	82.0; 84.7	−5	5568
5421	9.8	21	25	14.82	6	+3.1452	−0.0066	−4	59	5.4	2	+15.653	+0.280	85.9; 90.2	−5	5569
5422	9		25	39.24	1	3.1029	0.0053	−2	6	4.0	1	15.675	0.276	91.7	−2	5559
5423	8.9		25	53.21	8	3.1025	0.0053	−2	4	15.5	5	15.688	0.275	84.2; 85.3	−2	5561
5424	9.8		26	4.16	1	3.1086	0.0055	−2	29	21.9	1	15.698	0.275	80.7	−2	5562
5425	8.9		26	6.49	1	3.1222	0.0059	−3	25	48.0	1	15.700	0.277	80.7	−3	5236
5426	8	21	26	10.11	4	+3.1720	−0.0075	−6	50	15.1	4	+15.703	+0.281	84.2	−6	5775
5427	8.9		26	28.44	14	3.1083	0.0053	−2	8	10.8	7	15.720	0.274	84.8	−2	5563
5428	9.8		26	54.23	2	3.1456	0.0066	−5	3	19.8	1	15.743	0.277	78.7; 79.7	−5	5579
5429	9		26	55.04	2	3.0996	0.0052	−1	53	4.8	2	15.744	0.273	88.7	−1	4174
5430	8.9?		27	19.29	1	3.1724	0.0075	−6	54	19.1	1	15.766	0.279	82.7	−7	5584
5431	8.9	21	27	25.42	3	+3.1550	−0.0069	−5	43	3.4	3	+15.772	+0.277	84.4	−5	5582
5432	8		27	27.67	5	3.1584	0.0070	−5	56	54.6	3	15.774	0.278	83.9; 80.1	−6	5781
5433	8.9		27	31.40	1	3.1142	0.0057	−2	54	6.7	1	15.777	0.274	80.7	−3	5244
5434	8.9		27	34.98	4	3.1592	0.0071	−6	0	39.2	2	15.780	0.277	85.5; 89.7	−6	5782
5435	8		27	50.57	3	3.1430	0.0066	−4	54	3.5	3	15.794	0.276	85.4	−5	5584
5436	8.9	21	27	54.91	5	+3.1024	−0.0053	−2	5	34.9	5	+15.798	+0.272	89.3	−2	5566
5437	9.8		27	55.33	8	3.1297	0.0061	−3	59	3.0	3	15.798	0.274	84.0	−4	5485
5438	8		28	0.05	3	3.1291	0.0061	−3	56	33.5	3	15.808	0.274	81.7	−4	5487
5439	9.8		28	14.12	1	3.1090	0.0055	−2	33	3.4	1	15.815	0.272	90.7	−2	5568
5440	8.9		28	48.54	2	3.1385	0.0068	−4	16	1.5	2	15.846	0.273	78.7	−4	5488
5441	9	21	28	58.62	3	+3.1013	−0.0053	−2	1	35.8	2	+15.855	+0.270	86.0; 90.2	−2	5572
5442	6.7		29	1.66	4	3.1370	0.0064	−4	31	3.8	4	15.858	0.273	87.8	−4	5489
5443	9.8		29	3.39	2	3.1472	0.0067	−5	13	31.4	2	15.859	0.274	86.7	−5	5587
5444	8.7		30	15.06	3	3.1519	0.0068	−5	35	19.3	2	15.923	0.272	84.4	−5	5592
5445	9.8		30	17.12	3	3.1377	0.0064	−4	36	21.8	3	15.925	0.271	87.4	−4	5493
5446	9.8	21	30	27.15	1	+3.1170	−0.0057	−3	9	1.6	1	+15.934	+0.269	80.7	−3	5256
5447	8		30	28.22	3	3.1654	0.0073	−6	32	27.4	3	15.935	0.273	86.4	−6	5790
5448	8		30	39.24	1	3.1479	0.0067	−5	19	27.1	1	15.944	0.272	77.8	−5	5593
5449	9		30	49.59	1	3.1006	0.0052	−1	59	45.1	1	15.954	0.267	88.7	−2	5581
5450	9		30	50.20	3	3.1021	0.0053	−2	6	22.3	3	15.954	0.267	92.0	−2	5582

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	′	″		″	″		°
5451	8.9	21	31	22.26	4	+ 3.1727	− 0.0076	− 7	4	59.0	4	+ 15.982	+ 0.272	84.2	− 7 5600
5452	9		31	28.41	1	3.1130	0.0056	− 2	53	8.8	1	15.988	0.267	92.7	− 2 5587
5453	8.9		31	32.16	4	3.1539	0.0069	− 5	46	17.8	4	15.991	0.271	80.7	− 5 5597
5454	8.9		31	58.88	5	3.1122	0.0056	− 2	50	1.3	4	16.015	0.266	85.9; 93.9	− 2 5588
5455	8.9		32	19.17	4	3.1082	0.0055	− 2	33	19.6	4	16.032	0.265	86.5	− 2 5590
5456	7.8	21	32	25.17	5	+ 3.1382	− 0.0064	− 4	41	25.4	4	+ 16.038	+ 0.268	85.3; 87.0	− 4 5504
5457	9		32	38.60	1	3.1357	0.0063	− 4	30	53.9	1	16.045	0.267	90.7	− 4 5505
5458	9.8		32	46.51	9	3.1020	0.0052	− 2	7	1.4	8	16.056	0.264	86.4; 88.7	− 2 5593
5459	9		33	27.14	1	3.1496	0.0068	− 5	31	52.3	1	16.092	0.267	90.7	− 5 5602
5460	9.8		33	27.27	1	3.1058	0.0054	− 2	24	5.5	1	16.092	0.263	79.7	− 2 5595
5461	9.8	21	33	49.92	4	+ 3.1362	− 0.0064	− 4	35	3.8	4	+ 16.112	+ 0.265	86.9	− 4 5509
5462	8		34	0.62	5	3.1687	0.0074	− 6	54	42.7	5	16.121	0.268	83.0	− 7 5611
5463	9		34	7.57	2	3.1047	0.0053	− 2	19	46.5	2	16.127	0.262	85.8	− 2 5597
5464	8.9		34	13.06	5	3.1418	0.0065	− 4	59	51.6	5	16.132	0.265	85.1	− 5 5608
5465	8.9		34	13.54	3	3.1078	0.0054	− 2	33	24.9	2	16.132	0.262	84.0	− 2 5600
5466	8.9	21	34	18.19	2	+ 3.1148	− 0.0057	− 3	3	39.1	2	+ 16.136	+ 0.263	82.2	− 3 5272
5467	9.8		34	41.38	7	3.1455	0.0067	− 5	16	37.2	5	16.156	0.265	86.3	− 5 5611
5468	8.9		34	52.70	8	3.1461	0.0067	− 5	19	28.7	4	16.166	0.265	86.0; 83.7	− 5 5613
5469	8.9		35	26.06	2	3.1064	0.0054	− 2	28	36.7	2	16.195	0.260	87.2	− 2 5603
5470	9		35	34.80	1	3.1098	0.0055	− 2	43	10.3	1	16.202	0.260	89.7	− 2 5604
5471	9.8	21	35	37.78	11	+ 3.1034	− 0.0053	− 2	15	37.3	9	+ 16.205	+ 0.260	87.3; 86.0	− 2 5605
5472	8.9		35	50.96	2	3.1094	0.0055	− 2	41	44.8	1	16.216	0.260	91.2; 92.6	− 2 5609
5473	8		36	2.93	1	3.1395	0.0065	− 4	53	8.4	1	16.226	0.262	91.8	− 5 5619
5474	8.9		36	18.69	7	3.1027	0.0052	− 2	13	8.4	2	16.240	0.259	89.6; 90.7	− 2 5612
5475	9		36	20.37	1	3.1255	0.0060	− 3	52	52.1	1	16.241	0.260	82.7	− 4 5517
5476	8.9	21	36	26.36	2	+ 3.1112	− 0.0055	− 2	50	32.0	2	+ 16.246	+ 0.259	86.6	− 2 5613
5477	9		36	30.03	1	3.1008	0.0052	− 2	4	45.3	1	16.250	0.258	91.7	− 2 5614
5478	9.8		36	33.12	3	3.1203	0.0058	− 3	30	21.5	3	16.252	0.260	89.3	− 3 5281
5479	9.8		36	44.46	3	3.1187	0.0058	− 3	23	20.2	2	16.262	0.259	89.7; 87.2	− 3 5285
5480	9		36	49.67	1	3.1064	0.0053	− 2	25	27.0	1	16.266	0.258	91.7	− 2 5615
5481	8.9	21	36	51.11	2	+ 3.1076	− 0.0054	− 2	34	51.1	2	+ 16.268	+ 0.258	84.7	− 2 5616
5482	9.8		37	7.35	1	3.1674	0.0074	− 6	56	36.7	1	16.281	0.263	91.8	− 7 5623
5483	9.8		37	7.51	10	3.1032	0.0052	− 2	16	3.6	3	16.282	0.257	87.6	− 2 5619
5484	7		38	7.22	4	3.1440	0.0066	− 5	16	52.6	4	16.332	0.259	82.7	− 5 5628
5485	9.8		38	14.51	1	3.1545	0.0070	− 6	2	58.5	1	16.338	0.260	96.8	− 6 5812
5486	9.8	21	38	20.55	6	+ 3.1344	− 0.0063	− 4	34	51.2	6	+ 16.344	+ 0.258	89.9	− 4 5526
5487	8.9		38	27.05	2	3.1661	0.0074	− 6	54	18.0	2	16.349	0.260	87.8	− 7 5626
5488	8.9		38	32.35	4	3.1248	0.0060	− 3	52	45.9	4	16.353	0.257	88.1	− 3 5294
5489	9		38	33.99	1	3.1384	0.0064	− 4	52	37.9	1	16.355	0.258	91.8	− 5 5631
5490	9		38	56.04	1	3.1097	0.0054	− 2	46	25.1	1	16.373	0.255	89.7	− 2 5625
5491	8.9	21	39	14.97	2	+ 3.1195	− 0.0058	− 3	30	5.3	2	+ 16.389	+ 0.255	86.6	− 3 5296
5492	8.9		39	18.72	6	3.1395	0.0065	− 4	59	3.7	6	16.392	0.257	86.4	− 5 5632
5493	9.8		39	26.80	4	3.0991	0.0051	− 1	59	26.4	4	16.399	0.253	89.5	− 2 5627
5494	8.9		39	48.07	3	3.1646	0.0074	− 6	51	4.8	2	16.417	0.258	89.7; 93.2	− 6 5819
5495	8		40	7.04	9	3.1351	0.0063	− 4	40	47.5	9	16.433	0.255	86.4	− 4 5534
5496	9.8	21	40	17.06	4	+ 3.1121	− 0.0055	− 2	58	23.6	3	+ 16.441	+ 0.253	83.9; 82.3	− 3 5298
5497	7		40	18.87	9	3.1098	0.0054	− 2	46	0.6	6	16.443	0.252	85.2; 82.5	− 2 5631
5498	9.8		40	22.91	4	3.1071	0.0053	− 2	36	7.8	4	16.446	0.252	88.0	− 2 5632
5499	9.8		40	54.11	1	3.1052	0.0053	− 2	28	15.5	1	16.472	0.251	91.7	− 2 5635
5500	8		40	54.34	12	3.1102	0.0054	− 2	50	41.2	5	16.472	0.252	84.6; 88.1	− 2 5636

№	Gr.	Æ. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
5501	7.6	21	41	7.99	5	+ 3.1412	− 0.0065	− 5	9	46.4	5	+ 16.484	+ 0.254	83.5	− 5	5640
5502	6		41	19.21	6	3.1586	0.0072	− 6	28	21.5	6	16.493	0.255	87.4	− 6	5827
5503	9.8		41	28.76	8	3.1025	0.0052	− 2	16	12.1	8	16.501	0.250	89.0	− 2	5637
5504	8.7		41	41.09	7	3.1657	0.0074	− 7	1	2.0	7	16.511	0.255	85.2	− 7	5637
5505	9.8		41	52.38	1	3.1324	0.0062	− 4	32	3.1	1	16.521	0.252	90.7	− 4	5539
5506	8	21	42	15.60	2	+ 3.1626	− 0.0078	− 6	48	17.2	2	+ 16.540	+ 0.254	85.8	− 6	5834
5507	7.6		42	44.62	6	3.1510	0.0069	− 5	57	34.9	6	16.564	0.252	81.4	− 6	5837
5508	9		42	57.69	2	3.1065	0.0053	− 2	35	51.2	2	16.574	0.248	89.7	− 2	5642
5509	9.8		43	3.10	1	3.1619	0.0073	− 6	47	22.3	1	16.579	0.252	95.6	− 6	5840
5510	9.8		43	39.73	3	3.1054	0.0053	− 2	31	43.3	4	16.609	0.247	89.4	− 2	5643
5511	9.8	21	43	52.74	5	+ 3.1359	− 0.0063	− 4	51	26.2	6	+ 16.619	+ 0.249	84.7	− 4	5548
5512	9.8		44	10.32	2	3.1311	0.0062	− 4	29	52.7	2	16.634	0.248	84.2	− 4	5552
5513	9.8		44	23.55	3	3.1403	0.0065	− 5	12	31.7	3	16.645	0.248	93.7	− 5	5648
5514	9		44	26.01	1	3.1214	0.0058	− 3	46	4.8	1	16.646	0.247	92.7	− 3	5308
5515	9		45	7.62	4	3.1002	0.0051	− 2	9	0.4	4	16.680	0.244	89.5	− 2	5645
5516	8	21	45	14.34	12	+ 3.1087	− 0.0054	− 2	48	12.7	11	+ 16.686	+ 0.244	84.2	− 2	5646
5517	9		45	43.86	2	3.1074	0.0053	− 2	42	45.0	2	16.710	0.243	90.2	− 2	5648
5518	9		45	53.35	2	3.0962	0.0049	− 1	50	51.8	2	16.717	0.242	88.7	− 1	4212
5519	9		46	1.48	1	3.1017	0.0051	− 2	16	37.6	1	16.723	0.242	93.8	− 2	5649
5520	7		46	7.04	12	3.1205	0.0058	− 3	44	12.4	12	16.728	0.244	86.0	− 3	5316
5521	9	21	46	11.88	2	+ 3.1112	− 0.0054	− 3	1	9.4	2	+ 16.732	+ 0.243	89.7	− 3	5317
5522	9.8		46	19.25	9	3.1488	0.0068	− 5	55	40.5	7	16.738	0.246	87.4; 88.3	− 6	5850
5523	6.7		46	29.46	4	3.1310	0.0062	− 4	33	25.5	4	16.746	0.244	86.0	− 4	5564
5524	9.8		46	32.62	1	3.1614	0.0073	− 6	54	28.4	1	16.749	0.246	95.6	− 7	5659
5525	9.8		46	35.63	4	3.1381	0.0064	− 5	6	36.2	4	16.751	0.244	87.2	− 5	5653
5526	8.9	21	47	38.29	1	+ 3.1630	− 0.0074	− 7	4	45.7	1	+ 16.801	+ 0.245	83.8	− 7	5664
5527	8		47	53.91	7	3.1479	0.0068	− 5	55	15.9	4	16.814	0.243	85.8; 80.3	− 6	5859
5528	6.7		47	54.29	8	3.1340	0.0063	− 4	50	18.3	5	16.814	0.242	84.3; 82.7	− 4	5568
5529	7		48	21.55	5	3.1214	0.0058	− 3	51	58.9	4	16.836	0.240	85.3	− 3	5329
5530	8.7		48	22.00	8	3.1176	0.0057	− 3	33	48.2	3	16.836	0.240	85.3; 83.7	− 3	5331
5531	8.9	21	48	28.47	9	+ 3.1465	− 0.0068	− 5	49	56.9	7	+ 16.841	+ 0.242	87.7; 90.3	− 5	5663
5532	9.8		48	32.74	6	3.1015	0.0051	− 2	17	53.1	6	16.844	0.238	88.4	− 2	5657
5533	8.9		48	43.34	8	3.1330	0.0062	− 4	47	12.3	4	16.853	0.240	85.6; 87.8	− 4	5570
5534	9		48	47.21	1	3.1076	0.0053	− 2	47	19.3	1	16.856	0.238	89.7	− 2	5659
5535	8.9		49	6.60	11	3.1180	0.0057	− 3	36	49.1	5	16.871	0.238	87.5; 86.3	− 3	5333
5536	9.8	21	49	15.75	1	+ 3.1292	− 0.0061	− 4	30	2.8	1	+ 16.878	+ 0.239	90.7	− 4	5574
5537	8.9		49	19.67	19	3.1178	0.0057	− 3	36	13.3	11	16.882	0.238	86.2	− 3	5335
5538	8.9		49	20.46	5	3.1328	0.0062	− 4	47	25.0	2	16.882	0.239	83.7; 84.7	− 4	5575
5539	9.8		49	29.90	3	3.1127	0.0055	− 3	12	9.1	8	16.890	0.238	89.4	− 3	5338
5540	9.8		49	35.63	1	3.1542	0.0070	− 6	28	50.7	1	16.894	0.240	95.7	− 6	5865
5541	8.7	21	49	47.65	4	+ 3.1530	− 0.0070	− 6	23	51.4	4	+ 16.904	+ 0.240	84.0	− 6	5867
5542	8.9		50	4.36	4	3.1393	0.0065	− 5	19	32.0	4	16.917	0.239	90.0	− 5	5666
5543	9.8		50	6.14	3	3.1480	0.0068	− 6	1	14.8	3	16.918	0.239	87.4	− 6	5870
5544	9		50	22.63	1	3.1172	0.0056	− 3	34	45.8	1	16.931	0.236	92.7	− 3	5339
5545	9		51	8.26	3	3.1454	0.0067	− 5	50	59.2	2	16.966	0.237	84.4; 86.7	− 5	5670
5546	9	21	51	23.50	2	+ 3.1147	− 0.0055	− 3	24	34.7	2	+ 16.978	+ 0.234	89.7	− 3	5343
5547	9		51	33.34	2	3.1209	0.0058	− 3	54	21.2	2	16.986	0.235	89.2	− 4	5583
5548	8.9		51	43.32	9	3.1441	0.0067	− 5	46	18.4	8	16.994	0.236	88.6	− 5	5672
5549	8		51	53.32	3	3.1227	0.0058	− 4	3	41.4	3	17.001	0.234	80.4	− 4	5585
5550	7		51	55.90	2	3.1467	0.0068	− 5	59	34.9	2	17.003	0.236	81.7	− 6	5878

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
5551	9.8	21	52	5.67	4	+ 3.1135	− 0.0055	− 3	19	27.8	3	+ 17.011	+ 0.233	88.9	− 3	5351
5552	9.8		52	7.67	3	3.1020	0.0050	− 2	24	4.6	3	17.012	0.232	91.4	− 2	5668
5553	7.6		52	39.42	8	3.1333	0.0062	− 4	56	15.5	8	17.037	0.234	87.2	− 5	5674
5554	8.9		53	0.84	1	3.1469	0.0068	− 6	3	0.3	1	17.053	0.234	93.7	− 6	5881
5555	9.8		53	10.95	4	3.0963	0.0048	− 1	57	17.1	4	17.061	0.230	88.7	− 2	5673
5556	9	21	53	11.64	1	+ 3.1506	− 0.0069	− 6	21	10.7	1	+ 17.062	+ 0.234	95.7	− 6	5883
5557	8.9		53	13.69	5	3.1360	0.0063	− 5	10	55.0	5	17.063	0.233	85.3	− 5	5677
5558	8		53	20.74	2	3.1566	0.0072	− 6	50	52.0	2	17.069	0.234	87.7	− 6	5884
5559	9.8		53	33.13	9	3.1160	0.0056	− 3	34	4.7	9	17.078	0.231	87.8	− 3	5358
5560	8.9		54	21.44	4	3.1580	0.0072	− 7	0	27.5	4	17.115	0.233	84.0	− 7	5683
5561	9.8	21	54	23.00	4	+ 3.1127	− 0.0054	− 3	18	56.4	4	+ 17.116	+ 0.229	87.9	− 3	5357
5562	9		54	43.46	2	3.1341	0.0063	− 5	4	40.0	2	17.132	0.230	86.7	− 5	5681
5563	9.8		54	57.23	2	3.1415	0.0066	− 5	41	41.8	2	17.142	0.230	91.2	− 5	5682
5564	9		54	57.80	1	3.1435	0.0066	− 5	51	19.3	1	17.143	0.230	90.7	− 5	5683
5565	9		55	1.07	1	3.1321	0.0062	− 4	55	30.4	1	17.145	0.230	91.8	− 5	5684
5566	9	21	55	9.25	5	+ 3.1182	− 0.0056	− 3	47	20.4	5	+ 17.151	+ 0.228	92.1	− 3	5360
5567	8		55	17.21	3	3.1548	0.0071	− 6	47	25.4	3	17.157	0.231	83.4	− 6	5893
5568	9.8		55	20.67	5	3.1091	0.0053	− 3	2	34.1	4	17.160	0.227	89.9	− 3	5361
5569	9.8		55	34.29	5	3.1228	0.0058	− 4	10	32.5	5	17.170	0.228	87.6	− 4	5597
5570	9		56	21.75	2	3.1193	0.0057	− 3	54	47.0	2	17.206	0.226	89.2	− 4	5602
5571	8.9	21	56	36.22	6	+ 3.1089	− 0.0052	− 3	3	16.3	4	+ 17.217	+ 0.225	88.2	− 3	5363
5572	5.6		56	57.79	4	3.1575	0.0072	− 7	6	4.4	3	17.233	0.228	81.2	− 7	5688
5573	5.6		57	6.38	10	3.1050	0.0051	− 2	44	3.1	10	17.239	0.224	85.1	− 2	5681
5574	8		57	12.45	7	3.1474	0.0068	− 6	16	21.9	7	17.244	0.227	85.9	− 6	5901
5575	8		57	13.39	3	3.1497	0.0069	− 6	28	13.2	3	17.244	0.227	85.7	− 6	5902
5576	9.8	21	57	18.99	5	+ 3.1158	− 0.0055	− 3	38	46.7	5	+ 17.248	+ 0.224	89.9	− 3	5365
5577	9.8		57	36.64	3	3.1126	0.0054	− 3	22	59.5	3	17.262	0.224	90.4	− 3	5367
5578	9.8		57	38.18	1	3.1388	0.0064	− 5	34	47.6	1	17.263	0.226	90.7	− 5	5692
5579	9		58	7.96	1	3.1040	0.0050	− 2	40	41.5	1	17.285	0.222	88.7	− 2	5687
5580	8		58	45.39	4	3.1538	0.0071	− 6	53	4.7	4	17.312	0.225	84.2	− 7	5695
5581	9.8	21	58	51.39	5	+ 3.1170	− 0.0055	− 3	47	31.7	5	+ 17.317	+ 0.222	86.5	− 3	5372
5582	9		59	1.05	1	3.1308	0.0061	− 4	57	26.4	1	17.324	0.223	90.7	− 5	5701
5583	9.8		59	8.47	4	3.0959	0.0047	− 2	0	22.2	3	17.329	0.220	89.5	− 2	5689
5584	8.9		59	40.86	3	3.0982	0.0048	− 2	12	25.4	3	17.353	0.219	84.4	− 2	5691
5585	8		59	47.62	9	3.1420	0.0066	− 5	56	21.5	9	17.358	0.220	87.5	− 6	5908
5586	8.9	21	59	49.04	11	+ 3.1155	− 0.0055	− 3	41	19.0	10	+ 17.359	+ 0.220	87.3; 85.9	− 3	5375
5587	9.8	22	0	9.00	3	3.1081	0.0052	− 3	3	51.5	3	17.374	0.219	90.4	− 3	5376
5588	9.8		0	18.60	3	3.0942	0.0046	− 1	52	40.6	3	17.381	0.218	90.4	− 1	4248
5589	8		1	24.35	7	3.1467	0.0068	− 6	24	52.8	7	17.428	0.220	89 0	− 6	5912
5590	9.8		1	28.95	1	3.1063	0.0051	− 2	56	29.9	1	17.432	0.216	88.7	− 3	5382
5591	8	22	1	36.87	7	+ 3.1427	− 0.0066	− 6	4	59.0	7	+ 17.437	+ 0.219	83.0	− 6	5914
5592	8		1	57.25	6	3.1528	0.0071	− 6	58	9.2	6	17.452	0.219	86.1	− 7	5708
5593	8.9		1	57.76	5	3.1197	0.0056	− 4	7	2.8	5	17.454	0.216	85.3	− 4	5617
5594	9		2	29.59	1	3.0954	0.0046	− 2	0	50.6	1	17.475	0.214	91.7	− 2	5700
5595	9.8?		2	54.75	1	3.1433	0.0066	− 6	11	51.8	1	17.493	0.217	96.8	− 6	5918
5596	8.9	22	3	20.81	4	+ 3.1521	− 0.0070	− 6	58	52.3	3	+ 17.512	+ 0.216	83.2	− 7	5715
5597	9.8		3	23.72	4	3.1020	0.0049	− 2	36	32.6	4	17.514	0.218	89.2	− 2	5706
5598	7		4	6.59	2	3.1231	0.0058	− 4	28	59.0	2	17.544	0.213	92.7	− 4	5623
5599	9		4	8.01	1	3.1179	0.0055	− 4	1	24.8	1	17.545	0.213	91.7	− 4	5624
5600	7.6		4	18.27	6	3.1273	0.0059	− 4	51	23.9	5	17.552	0.213	83.9; 85.1	− 4	5625

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec. s	Var. saec. s	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec. "	Var. saec. "	Ep. 1800 +	B. D. °	
5601	9.8	22	4	38.21	1	+ 3.1213	− 0.0057	− 4	20	24.7	1	+ 17.566	+ 0.212	89.8	− 4	5626
5602	9.8		4	54.70	1	3.1455	0.0067	− 6	29	4.2	1	17.576	0.213	82.7	− 6	5925
5603	9.8		5	24.18	3	3.1118	0.0052	− 3	31	24.8	3	17.599	0.210	88.7	− 3	5394
5604	8.9		5	37.28	2	3.0928	0.0044	− 1	50	9.9	2	17.608	0.208	90.2	− 1	4261
5605	9.8		5	38.30	2	3.1410	0.0065	− 6	7	27.5	2	17.608	0.212	91.7	− 6	5928
5606	9	22	6	20.77	1	+ 3.1210	− 0.0056	− 4	22	10.7	1	+ 17.638	+ 0.209	83.8	− 4	5631
5607	8		6	24.20	5	3.1511	0.0070	− 7	3	41.6	5	17.640	0.211	84.7	− 7	5727
5608	7		6	28.87	9	3.1314	0.0061	− 5	18	43.5	8	17.644	0.210	86.4	− 5	5732
5609	9.8		6	57.98	2	3.1218	0.0057	− 4	27	54.5	2	17.664	0.208	92.7	− 4	5636
5610	9.8		7	6.18	3	3.1091	0.0051	− 3	19	33.5	3	17.670	0.207	82.1	− 3	5403
5611	7.8	22	7	13.05	12	+ 3.0971	− 0.0046	− 2	14	39.4	12	+ 17.674	+ 0.206	81.6	− 2	5714
5612	9.8		7	21.43	4	3.1293	0.0060	− 5	9	14.2	1	17.680	0.208	87.7; 77.8	− 5	5735
5613	9.8		7	27.96	6	3.1205	0.0056	− 4	22	5.4	4	17.684	0.207	88.4; 86.3	− 4	5637
5614	7.8		7	36.51	11	3.1279	0.0059	− 5	2	43.1	11	17.690	0.207	87.0	− 5	5738
5615	9.8		7	38.92	2	3.1301	0.0060	− 5	14	22.3	1	17.692	0.207	91.3	− 5	5739
5616	8	22	7	57.06	7	+ 3.1421	− 0.0066	− 6	20	27.7	7	+ 17.704	+ 0.208	85.7	− 6	5938
5617	9.8		8	3.02	3	3.1400	0.0065	− 6	9	13.1	3	17.709	0.207	93.1	− 6	5940
5618	9.8		8	22.52	1	3.1063	0.0050	− 3	6	36.8	1	17.722	0.204	89.7	− 3	5408
5619	8		8	24.42	3	3.1491	0.0069	− 6	59	41.6	3	17.723	0.207	87.0	− 7	5732
5620	7.8		8	29.92	1	3.1433	0.0066	− 6	28	37.9	1	17.727	0.207	83.8	− 6	5944
5621	9	22	8	40.13	1	+ 3.1219	− 0.0057	− 4	32	37.1	1	+ 17.734	+ 0.205	93.7	− 4	5640
5622	8.9		8	51.41	6	3.1012	0.0047	− 2	39	16.1	6	17.742	0.203	85.2	− 2	5720
5623	8.9		8	55.95	5	3.1398	0.0065	− 6	10	50.3	3	17.745	0.205	88.3; 83.0	− 6	5947
5624	9.8		9	34.68	1	3.1052	0.0049	− 3	1	56.9	1	17.771	0.202	88.7	− 3	5412
5625	9.8		10	20.50	2	3.1097	0.0051	− 3	28	34.1	2	17.802	0.201	93.2	− 3	5415
5626	7	22	10	22.64	9	+ 3.0959	− 0.0045	− 2	11	36.6	9	+ 17.803	+ 0.200	85.4	− 2	5726
5627	6		10	50.49	3	3.1366	0.0063	− 5	59	8.9	3	17.822	0.202	87.1	− 6	5960
5628	9		11	1.00	1	3.1269	0.0059	− 5	5	24.8	1	17.829	0.201	91.8	− 5	5747
5629	9.8		11	1.64	2	3.1109	0.0051	− 3	36	21.6	2	17.829	0.200	78.3	− 3	5420
5630	8		11	58.46	2	3.1409	0.0065	− 6	26	32.6	2	17.867	0.200	88.7	− 6	5964
5631	9	22	12	1.79	2	+ 3.1022	− 0.0047	− 2	48	44.5	2	+ 17.869	+ 0.198	90.7	− 2	5728
5632	9		12	22.88	2	3.0997	0.0046	− 2	35	14.4	2	17.883	0.197	90.7	− 2	5730
5633	8		13	35.08	3	3.1212	0.0056	− 4	40	3.5	3	17.930	0.196	85.1	− 4	5655
5634	9		14	2.17	3	3.1003	0.0046	− 2	40	47.8	2	17.948	0.194	89.4; 86.7	− 2	5736
5635	9		14	12.26	2	3.1252	0.0058	− 5	4	29.1	2	17.955	0.195	90.7	− 5	5762
5636	9	22	14	51.39	1	+ 3.1316	− 0.0061	− 5	43	12.2	1	+ 17.980	+ 0.195	89.8	− 5	5768
5637	9.8		14	55.56	1	3.1454	0.0068	− 7	2	23.3	1	17.983	0.195	96.7	− 7	5755
5638	8		15	6.96	7	3.1433	0.0066	− 6	50	46.7	4	17.990	0.195	88.7	− 6	5972
5639	9		15	17.56	4	3.1003	0.0046	− 2	42	45.3	4	17.997	0.192	88.2	− 2	5740
5640	8		15	29.72	6	3.1424	0.0066	− 6	47	7.4	4	18.005	0.194	89.6; 90.5	− 6	5974
5641	8.9	22	15	48.26	2	+ 3.1462	− 0.0068	− 7	10	26.2	2	+ 18.017	+ 0.194	82.7	− 7	5760
5642	8.9		15	48.76	9	3.1176	0.0054	− 4	24	22.4	6	18.017	0.192	87.6; 85.6	− 4	5662
5643	9.8		15	49.37	1	3.1019	0.0046	− 2	52	57.0	1	18.017	0.191	92.7	− 3	5433
5644	8.9		16	11.14	1	3.1036	0.0047	− 3	3	21.7	1	18.031	0.190	88.7	− 3	5435
5645	9		16	12.35	3	3.1239	0.0057	− 5	2	16.6	3	18.032	0.192	90.4	− 5	5773
5646	8.9	22	16	23.94	9	+ 3.1167	− 0.0054	− 4	20	34.2	4	+ 18.039	+ 0.191	88.1; 89.7	− 4	5663
5647	9		16	32.73	1	3.0952	0.0043	− 2	14	50.2	1	18.045	0.189	91.7	− 2	5746
5648	9.8		16	46.55	1	3.1048	0.0047	− 3	11	24.2	1	18.054	0.189	89.7	− 3	5437
5649	8.7		17	21.27	6	3.1017	0.0046	− 2	54	26.3	6	18.076	0.188	86.2	− 3	5438
5650	8.9		17	39.93	7	3.1063	0.0048	− 3	21	50.6	6	18.688	0.188	83.9; 85.1	− 3	5440

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	''		''	''		°	
5651	6	22	17	51.93	3	+ 3.1273	− 0.0058	− 5	26	41.3	3	+ 18.095	+ 0.189	85.1	− 5	5780
5652	8.7		17	58.80	5	3.0992	0.0044	− 2	40	7.7	5	18.100	0.187	86.1	− 2	5750
5653	9.8		18	4.95	6	3.1411	0.0065	− 6	49	4.8	6	18.103	0.189	89.7	− 6	5984
5654	8.9		18	7.16	4	3.0930	0.0041	− 2	3	24.4	4	18.105	0.186	87.7	− 2	5751
5655	8.9		18	10.15	2	3.1392	0.0064	− 6	38	23.0	2	18.107	0.189	87.2	− 6	5985
5656	7.8	22	18	24.46	3	+ 3.0903	− 0.0040	− 1	47	45.8	3	+ 18.116	+ 0.186	84.7	− 1	4290
5657	9		18	26.90	1	3.1309	0.0060	− 5	50	4.8	1	18.117	0.188	91.8	− 5	5784
5658	9		18	40.11	1	3.1134	0.0051	− 4	6	34.0	1	18.125	0.186	86.8	− 4	5671
5659	9.8		18	43.60	2	3.1423	0.0066	− 6	58	47.8	2	18.128	0.188	95.2	− 7	5773
5660	9		19	7.43	1	3.1427	0.0066	− 7	2	44.7	1	18.142	0.187	86.7	− 7	5776
5661	8	22	19	51.48	4	+ 3.1297	− 0.0060	− 5	47	12.8	2	+ 18.170	+ 0.185	85.3; 83.8	− 5	5790
5662	9.8		20	2.13	4	3.1296	0.0060	− 5	47	32.9	2	18.176	0.185	85.8; 87.8	− 5	5791
5663	8.7		20	2.26	6	3.1058	0.0047	− 3	23	46.6	5	18.176	0.184	83.2; 84.5	− 3	5443
5664	9		20	7.69	1	3.0935	0.0041	− 2	8	37.9	1	18.180	0.183	91.7	− 2	5756
5665	8.9		20	54.54	4	3.0987	0.0044	− 2	41	32.8	4	18.208	0.182	90.2	− 2	5760
5666	8.7	22	20	55.68	9	+ 3.0911	− 0.0040	− 1	55	11.3	9	+ 18.209	+ 0.181	85.2	− 2	5761
5667	9.8		21	5.78	1	3.1374	0.0064	− 6	38	19.4	1	18.215	0.183	78.7	− 6	5995
5668	8.9		21	35.65	9	3.1359	0.0063	− 6	31	2.8	6	18.233	0.182	88.5; 89.2	− 6	5996
5669	9.8		21	38.60	8	3.1203	0.0055	− 4	55	42.1	8	18.235	0.181	87.6	− 5	5796
5670	8.9		21	43.74	9	3.1362	0.0063	− 6	32	58.0	3	18.238	0.182	86.6	− 6	5997
5671	9.8	22	22	35.51	5	+ 3.1015	− 0.0045	− 3	1	55.9	5	+ 18.270	+ 0.179	87.9	− 3	5450
5672	9		23	15.01	3	3.1044	0.0046	− 3	20	48.6	3	18.293	0.178	89.4	− 3	5453
5673	9.8		23	22.97	5	3.0913	0.0039	− 1	59	7.6	5	18.298	0.177	88.9	− 2	5767
5674	9.8		23	45.84	3	3.1269	0.0058	− 5	42	40.4	3	18.312	0.178	89.1	− 5	5804
5675	8.9		24	12.64	3	3.1240	0.0056	− 5	25	58.1	3	18.327	0.177	85.7	− 5	5806
5676	9	22	24	25.17	1	+ 3 0923	− 0.0039	− 2	6	33.0	1	+ 18.335	+ 0.175	86.7	− 2	5769
5677	9.8		24	33.83	1	3.1142	0.0051	− 4	25	30.5	1	18.340	0.176	89.8	− 4	5687
5678	7		25	0.78	9	3.1400	0.0065	− 7	10	0.1	6	18.356	0.176	87.1; 85.1	− 7	5797
5679	9		25	1.49	1	3.1018	0.0044	− 3	7	54.2	1	18.356	0.174	91.7	− 3	5459
5680	7.6		25	6.16	10	3.1055	0.0046	− 3	31	32.3	10	18.359	0.174	86.7	− 3	5460
5681	8.9	22	25	59.07	10	+ 3.1160	− 0.0052	− 4	40	43.9	9	+ 18.390	+ 0.173	87.2; 88.2	− 4	5694
5682	7.8		26	15.66	10	3.1384	0.0064	− 7	5	5.8	6	18.400	0.174	88.0; 89.2	− 7	5805
5683	8.9		26	21.39	12	3.0921	0.0039	− 2	7	56.6	11	18.403	0.171	85.8; 86.6	− 2	5776
5684	8.9		26	21.85	7	3.1262	0.0057	− 5	47	24.5	7	18.403	0.173	87.4	− 5	5810
5685	9.8		26	36.13	3	3.1053	0.0046	− 3	33	37.3	3	18.412	0.172	89.4	− 3	5464
5686	9.8	22	27	33.39	1	+ 3.1190	− 0.0053	− 5	5	4.1	1	+ 18.444	+ 0.171	90.7	− 5	5814
5687	8.9		27	39.91	5	3.1228	0.0055	− 5	30	13.0	4	18.448	0.171	84.8; 86.8	− 5	5815
5688	7.6		27	51.77	12	3.0924	0.0039	− 2	11	30.1	5	18.455	0.169	85.1; 80.5	− 2	5781
5689	9.8		28	8.41	1	3.1140	0.0050	− 4	34	12.1	1	18.464	0.169	91.8	− 4	5703
5690	8.9		28	25.81	1	3.1080	0.0047	− 3	55	35.9	1	18.474	0.168	90.7	− 4	5705
5691	8.9	22	28	27.43	9	+ 3.0914	− 0.0038	− 2	5	49.9	4	+ 18.475	+ 0.167	87.8; 91.5	− 2	5783
5692	9.8		28	39.93	1	3.1238	0.0056	− 5	39	51.5	1	18.482	0.169	91.8	− 5	5817
5693	8.9		28	55.20	12	3.0917	0.0038	− 2	8	42.8	4	18.491	0.167	86.2; 83.7	− 2	5785
5694	8.9		29	0.62	7	3.1136	0.0050	− 4	34	3.4	6	18.494	0.168	88.2	− 4	5707
5695	8.9		29	8.76	8	3.0983	0.0042	− 2	52	36.7	8	18.498	0.166	86.5	− 3	5472
5696	8.9	22	29	20.29	8	+ 3.1044	− 0.0045	− 3	33	40.9	8	+ 18.505	+ 0.166	87.0	− 3	5473
5697	8.9		30	2.17	2	3.1139	0.0050	− 4	38	32.8	1	18.528	0.166	90.8; 91.8	− 4	5710
5698	8.9		30	3.54	6	3.1240	0.0056	− 5	46	30.6	6	18.529	0.166	86.8	− 5	5820
5699	9.8		30	37.48	5	3.1354	0.0063	− 7	4	25.9	5	18.548	0.166	90.0	− 7	5820
5700	8		31	2.79	9	3.1317	0.0061	− 6	41	19.9	9	18.562	0.165	89.8	− 6	6034

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
5701	6	22	31	32.50	7	+3.1150	−0.0051	−4	50	49.8	7	+18.578	+0.163	85.6	−4	5716
5702	8.9		31	54.91	2	3.1032	0.0044	−3	31	16.2	2	18.591	0.162	94.7	−3	5481
5703	8.9		32	22.56	1	3.1114	0.0048	−4	28	26.2	1	18.606	0.161	89.8	−4	5719
5704	8.9		32	44.34	6	3.1040	0.0044	−3	38	58.7	6	18.618	0.160	87.4	−3	5482
5705	8.9		33	2.65	9	3.1090	0.0047	−4	13	49.0	6	18.628	0.160	88.5; 87.6	−4	5721
5706	9	22	33	26.39	3	+3.1081	−0.0046	−4	8	39.7	2	+18.640	+0.159	90.4	−4	5723
5707	8		33	56.93	7	3.1339	0.0062	−7	9	29.2	7	18.657	0.160	89.3	−7	5827
5708	9		34	2.27	1	3.1184	0.0052	−5	22	14.6	1	18.660	0.159	91.8	−5	5835
5709	9.8		34	17.86	1	3.1102	0.0047	−4	26	14.6	1	18.668	0.158	89.8	−4	5725
5710	7		34	35.31	5	3.1079	0.0046	−4	10	43.1	4	18.677	0.157	85.6; 84.3	−4	5728
5711	9	22	35	0.89	3	+3.0899	−0.0035	−2	4	40.2	2	+18.691	+0.155	92.4	−2	5812
5712	9.8		35	2.50	1	3.1307	0.0060	−6	52	19.3	1	18.692	0.157	96.7	−7	5830
5713	8.9		35	12.99	7	3.1299	0.0059	−6	47	20.4	6	18.697	0.157	89.4; 88.2	−6	6052
5714	9		35	18.47	4	3.0897	0.0035	−2	3	33.4	2	18.700	0.155	92.2	−2	5814
5715	8.9		35	26.59	9	3.0991	0.0040	−3	10	37.7	8	18.704	0.155	87.1; 86.4	−3	5487
5716	7	22	35	51.39	5	+3.1205	−0.0054	−5	43	39.3	5	+18.717	+0.155	82.4	−5	5843
5717	8		35	53.94	9	3.1067	0.0045	−4	6	2.1	9	18.719	0.154	86.9; 87.8	−4	5733
5718	9		36	2.98	3	3.0957	0.0038	−2	47	43.0	2	18.723	0.154	89.4; 86.7	−2	5815
5719	8.9		36	6.51	1	3.1353	0.0063	−7	29	55.5	1	18.725	0.156	92.8	−7	5833
5720	8.9		36	25.14	4	3.0946	0.0038	−2	40	20.5	3	18.735	0.153	88.5	−2	5816
5721	9.8	22	36	39.11	1	+3.1294	−0.0059	−6	50	31.5	1	+18.742	+0.154	90.8	−6	6060
5722	9.8		36	40.47	3	3.1166	0.0051	−5	19	21.8	3	18.743	0.154	87.4	−5	5847
5723	8.9		36	44.12	12	3.0980	0.0040	−3	5	27.2	11	18.745	0.153	86.8	−3	5490
5724	8.9		36	45.80	4	3.0998	0.0041	−3	18	38.5	4	18.746	0.153	86.0	−3	5491
5725	9		36	55.19	1	3.1084	0.0046	−4	21	16.2	1	18.750	0.153	89.8	−4	5742
5726	8.9	22	37	7.26	7	+3.1306	−0.0060	−7	1	11.1	7	+18.757	+0.153	87.9	−7	5839
5727	9.8		37	52.58	4	3.0982	0.0039	−3	9	38.2	3	18.780	0.150	90.0; 92.4	−3	5496
5728	9.8		38	40.79	1	3.1174	0.0052	−5	32	48.8	1	18.805	0.150	89.8	−5	5855
5729	9		39	7.58	1	3.0956	0.0038	−2	52	44.5	1	18.818	0.148	86.7	−3	5503
5730	8.9		39	9.71	6	3.0869	0.0032	−1	48	30.2	6	18.819	0.147	85.2	−1	4345
5731	9.8	22	40	34.78	11	+3.1246	−0.0056	−6	33	56.7	11	+18.862	+0.147	89.3	−6	6068
5732	8.9		41	0.41	11	3.0987	0.0039	−3	20	26.3	9	18.874	0.145	88.8	−3	5505
5733	9		41	18.43	1	3.0958	0.0037	−2	58	59.2	1	18.883	0.144	86.7	−3	5506
5734	8.7		41	19.02	7	3.0914	0.0034	−2	25	15.8	7	18.884	0.144	84.6	−2	5826
5735	9		41	21.25	1	3.1113	0.0047	−4	56	43.9	1	18.885	0.145	90.7	−5	5863
5736	9.8	22	41	32.90	3	+3.0994	−0.0040	−3	27	29.5	2	+18.890	+0.144	92.8	−3	5507
5737	9		41	36.30	3	3.1011	0.0041	−3	39	53.9	3	18.892	0.144	90.1	−3	5508
5738*)	8.7		41	38.81	7	3.1104	0.0047	−4	51	7.5	4	18.893	0.144	85.9; 83.3	−4	5757
5739	9.8		41	40.94	3	3.0999	0.0040	−3	31	4.0	1	18.894	0.143	92.4; 90.7	−3	5509
5740	9.8		41	41.03	4	3.1104	0.0047	−4	51	42.1	2	18.894	0.144	88.7	−4	5759
5741	9.8	22	41	43.65	4	+3.0974	−0.0038	−3	12	21.7	4	+18.896	+0.143	89.7	−3	5510
5742	8.9		42	8.69	1	3.1224	0.0055	−6	24	0.8	1	18.905	0.144	95.7	−6	6074
5743	8.9		42	17.42	9	3.1129	0.0048	−5	12	31.4	9	18.912	0.143	84.9	−5	5866
5744	9.8		42	48.37	5	3.1034	0.0042	−4	1	17.0	5	18.927	0.141	84.0	−4	5764
5745	9		43	17.18	2	3.1052	0.0043	−4	16	34.4	2	18.942	0.141	89.8	−4	5766
5746	9.8	22	43	32.92	7	+3.0952	−0.0036	−2	59	36.4	7	+18.948	+0.140	86.2	−3	5515
5747	8.9		43	44.89	7	3.0987	0.0039	−3	27	16.7	7	18.954	0.139	87.5	−3	5517
5748	9		44	4.72	2	3.0880	0.0031	−2	3	59.3	2	18.964	0.138	86.2	−2	5832
5749	9.8		44	5.50	8	3.0956	0.0036	−3	3	36.0	4	18.964	0.139	87.6; 88.7	−3	5518
5750	9.8		44	59.03	8	3.0880	0.0031	−2	5	2.7	8	18.989	0.137	86.0	−2	5836

*) Dupl. med.

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h	m	s		s	s	°	′	″		″	″		°
5751	9	22	45	10.98	2	+ 3.1014	— 0.0040	— 3	52	17.2	2	+ 18.995	+ 0.137	87.8	— 4 5775
5752	8.9		45	22.89	5	3.0906	0.0033	— 2	26	54.6	5	19.000	0.136	82.1	— 2 5840
5753	8.9		46	28.58	7	3.0964	0.0036	— 3	15	47.3	7	19.031	0.134	86.3	— 3 5521
5754	9.8		47	3.57	3	3.0951	0.0035	— 3	6	40.0	2	19.047	0.133	92.0	— 3 5524
5755	9.8		47	6.29	3	3.0952	0.0035	— 3	7	30.4	1	19.048	0.133	92.0; 93.7	— 3 5525
5756	9	22	47	12.94	4	+ 3.0922	— 0.0033	— 2	43	0.9	4	+ 19.051	+ 0.133	90.2	— 2 5847
5757	8.7		47	13.95	9	3.1208	0.0054	— 6	37	27.0	9	19.051	0.134	87.7	— 6 6087
5758	9.8		47	20.57	4	3.0938	0.0034	— 2	56	34.0	4	19.054	0.132	88.0	— 3 5526
5759	8.9		47	23.73	6	3.1216	0.0054	— 6	44	47.9	6	19.056	0.134	87.1	— 6 6088
5760	8		47	31.24	6	3.1109	0.0047	— 5	17	43.5	6	19.059	0.133	86.6	— 5 5880
5761	9	22	47	57.90	1	+ 3.1090	— 0.0045	— 5	4	21.8	1	+ 19.071	+ 0.132	87.8	— 5 5881
5762	9.8		48	6.13	2	3.0975	0.0037	— 3	29	33.2	2	19.075	0.131	90.7	— 3 5527
5763	9		48	40.19	3	3.1003	0.0039	— 3	54	12.3	3	19.090	0.130	89.8	— 4 5787
5764	7.6		48	57.56	6	3.1125	0.0048	— 5	37	36.8	6	19.098	0.130	87.1	— 5 5885
5765	8		49	7.48	6	3.1175	0.0051	— 6	19	43.6	6	19.102	0.130	87.9	— 6 6096
5766	9	22	49	12.05	5	+ 3.0864	— 0.0029	— 1	58	57.2	5	+ 19.104	+ 0.129	91.4	— 2 5853
5767	8.9		49	27.36	2	3.0970	0.0036	— 3	28	51.4	2	19.111	0.129	90.7	— 3 5530
5768	8.9		50	6.00	2	3.1230	0.0056	— 7	11	6.3	1	19.128	0.129	91.7; 96.7	— 7 5892
5769	9		50	8.33	1	3.1097	0.0046	— 5	18	50.6	1	19.129	0.128	91.8	— 5 5889
5770	9.8		50	31.26	2	3.1014	0.0039	— 4	10	3.9	2	19.139	0.127	90.2	— 4 5791
5771	9	22	50	52.24	2	+ 3.0963	— 0.0035	— 3	27	24.8	2	+ 19.148	+ 0.126	90.7	— 3 5534
5772	7		50	54.90	14	3.0993	0.0038	— 3	53	11.8	5	19.150	0.126	86.3; 85.4	— 4 5793
5773	7		51	4.42	6	3.1101	0.0046	— 5	27	3.2	6	19.154	0.126	86.6	— 5 5894
5774	9		51	5.36	4	3.0866	0.0028	— 2	3	28.8	4	19.154	0.125	90.3	— 2 5857
5775	8		51	13.96	15	3.0985	0.0037	— 3	47	39.2	3	19.158	0.125	86.7; 82.8	— 3 5536
5776	8.9	22	51	25.66	15	+ 3.0987	— 0.0037	— 3	49	23.8	7	+ 19.163	+ 0.125	86.7; 89.3	— 3 5538
5777	8.9		51	29.39	6	3.1223	0.0055	— 7	13	33.0	6	19.163	0.126	86.4	— 7 5897
5778	8.9		51	55.52	7	3.1157	0.0050	— 6	19	39.8	6	19.176	0.125	87.3	— 6 6110
5779	7.6		52	4.62	7	3.0930	0.0033	— 3	2	12.1	6	19.180	0.124	84.3; 82.9	— 3 5539
5780	7		52	12.88	10	3.0863	0.0028	— 2	3	8.4	9	19.183	0.123	87.5; 86.8	— 2 5858
5781	9.8	22	52	17.76	4	+ 3.1074	— 0.0044	— 5	8	40.1	4	+ 19.185	+ 0.124	89.8	— 5 5897
5782	8.9		52	22.21	3	3.1154	0.0050	— 6	18	54.2	2	19.187	0.124	86.1; 82.7	— 6 6112
5783	8.9		52	58.43	5	3.0846	0.0026	— 1	49	17.4	5	19.202	0.121	83.5	— 1 4365
5784	9.8		53	14.68	4	3.1212	0.0055	— 7	14	53.5	4	19.209	0.123	88.2	— 7 5902
5785	8		53	17.92	7	3.0960	0.0035	— 3	31	41.6	7	19.210	0.121	86.0	— 3 5544
5786	8.9	22	53	28.94	5	+ 3.1059	— 0.0042	— 5	0	28.8	5	+ 19.215	+ 0.121	85.4	— 5 5903
5787	9.8		53	32.31	3	3.1155	0.0050	— 6	26	22.8	3	19.216	0.122	89.1	— 6 6116
5788	8		53	38.23	7	3.0929	0.0032	— 3	5	0.2	6	19.219	0.121	86.3; 87.9	— 3 5545
5789	8.9		54	25.27	3	3.1067	0.0043	— 5	11	48.1	3	19.238	0.120	91.1	— 5 5905
5790	9		54	48.86	2	3.1140	0.0049	— 6	20	23.3	2	19.248	0.119	92.2	— 6 6121
5791	7.8	22	55	19.04	6	+ 3.1072	— 0.0043	— 5	21	21.7	6	+ 19.260	+ 0.118	86.1	— 5 5910
5792	9.8		55	23.01	2	3.0900	0.0030	— 2	42	54.6	2	19.262	0.117	90.7	— 2 5867
5793	8.9		55	25.60	8	3.0938	0.0033	— 3	18	1.0	6	19.263	0.117	89.7; 88.6	— 3 5552
5794	8		55	36.68	9	3.1014	0.0039	— 4	29	11.1	3	19.268	0.117	86.9; 82.1	— 4 5804
5795	8		55	40.70	6	3.1152	0.0050	— 6	36	35.3	6	19.269	0.118	88.7	— 6 6127
5796	8.7	22	55	44.38	11	+ 3.0939	— 0.0033	— 3	19	49.9	5	+ 19.271	+ 0.117	88.5; 87.1	— 3 5553
5797	9.8		55	52.46	7	3.0843	0.0025	— 1	51	16.3	7	19.274	0.116	89.9	— 1 4876
5798	9.8		55	54.04	2	3.1085	0.0044	— 5	35	42.0	1	19.275	0.117	96.8	— 5 5911
5799	9.8		55	54.20	9	3.1014	0.0039	— 4	29	48.9	6	19.275	0.117	86.9; 89.3	— 4 5808
5800	9.8		56	8.46	3	3.1084	0.0044	— 5	35	47.2	2	19.280	0.116	92.4; 90.3	— 5 5912

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	′	″	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	′	″		″	″		°	
5801	7.6	22	56	18.73	10	+ 3.1188	— 0.0053	— 7	13	4.4	10	+ 19.284	+ 0.116	87.6	— 7	5913
5802	9		56	19.60	1	3.0970	0.0035	— 3	51	10.0	1	19.285	0.116	88.8	— 3	5555
5803	9.8		56	24.48	8	3.1133	0.0048	— 6	22	27.8	7	19.287	0.116	88.1; 87.5	— 6	6129
5804	9.8		56	33.60	2	3.0922	0.0031	— 3	6	32.0	2	19.290	0.115	92.7	— 3	5557
5805	9		57	13.46	2	3.1085	0.0040	— 4	55	39.2	1	19.306	0.114	87.8	— 5	5916
5806	8	22	57	42.30	5	+ 3.1065	— 0.0043	— 5	26	34.3	4	+ 19.318	+ 0.113	85.2; 87.2	— 5	5917
5807	8.9		57	59.60	8	3.1125	0.0048	— 6	25	12.5	6	19.324	0.113	85.9	— 6	6139
5808	9.8		58	7.60	6	3.0882	0.0027	— 2	32	50.0	5	19.327	0.112	88.1; 89.5	— 2	5876
5809	8.9		58	34.40	8	3.1084	0.0044	— 5	48	34.0	5	19.338	0.112	88.6; 86.8	— 5	5921
5810	9.8		58	59.09	5	3.1057	0.0045	— 5	53	43.1	3	19.347	0.111	89.2; 91.8	— 6	6142
5811	9	22	59	7.66	2	+ 3.1174	— 0.0052	— 7	18	35.2	2	+ 19.351	+ 0.111	96.7	— 7	5930
5812	9.8		59	15.79	13	3.1023	0.0039	— 4	53	51.0	12	19.354	0.110	88.2; 89.1	— 5	5923
5813	9.8	23	0	29.13	5	3.1014	0.0038	— 4	50	50.7	5	19.381	0.108	86.6	— 4	5822
5814	9		1	30.34	1	3.0886	0.0027	— 2	45	15.5	1	19.404	0.105	92.7	— 2	5886
5815	9.8		1	34.34	2	3.1062	0.0043	— 5	44	38.2	2	19.406	0.106	90.3	— 5	5931
5816	8.9	23	1	37.72	7	+ 3.1098	— 0.0046	— 6	20	48.7	7	+ 19.407	+ 0.106	83.2	— 6	6147
5817	9.8		1	42.54	2	3.1043	0.0041	— 5	25	33.6	2	19.409	0.106	87.7	— 5	5932
5818	9		2	9.25	4	3.0906	0.0029	— 3	7	23.2	2	19.418	0.104	91.8	— 3	5571
5819	9.8		2	48.87	3	3.1070	0.0043	— 5	59	30.7	3	19.433	0.104	83.8	— 6	6152
5820	9.8		2	51.61	7	3.0908	0.0029	— 3	12	4.8	6	19.434	0.103	89.2	— 3	5575
5821	8	23	2	53.37	17	+ 3.0902	— 0.0028	— 3	6	9.6	13	+ 19.434	+ 0.103	86.5; 84.8	— 3	5576
5822	8.9		2	55.34	4	3.0891	0.0027	— 2	54	29.2	4	19.435	0.103	83.7	— 3	5577
5823	9.8		3	25.33	6	3.0987	0.0036	— 4	36	42.9	6	19.446	0.102	85.1	— 4	5833
5824	9.8		4	24.09	1	3.1041	0.0041	— 5	38	33.6	1	19.467	0.100	83.8	— 5	5939
5825	8.7		4	26.75	12	3.1095	0.0046	— 6	36	40.7	12	19.468	0.100	84.8	— 6	6157
5826	9.8	23	4	37.24	1	+ 3.0956	— 0.0033	— 4	9	52.9	1	+ 19.471	+ 0.100	79.7	— 4	5837
5827	9.8		4	57.38	4	3.1000	0.0037	— 4	58	24.4	4	19.478	0.099	92.2	— 5	5944
5828	9		5	1.83	2	3.0830	0.0021	— 1	55	3.4	2	19.480	0.098	86.7	— 2	5898
5829	8.9		5	4.98	3	3.1043	0.0041	— 5	45	3.4	3	19.481	0.099	90.1	— 5	5945
5830	8.9		5	26.05	9	3.0930	0.0030	— 3	45	9.1	9	19.488	0.098	85.2	— 3	5584
5831	9	23	5	31.83	1	+ 3.0822	— 0.0020	— 1	47	11.9	1	+ 19.490	+ 0.097	82.7	— 1	4401
5832	9		5	32.20	4	3.0851	0.0024	— 2	19	41.5	4	19.490	0.097	91.2	— 2	5902
5833	9.8		5	52.79	1	3.0876	0.0025	— 2	48	1.8	1	19.497	0.097	88.7	— 2	5903
5834	9.8		6	1.48	6	3.0974	0.0034	— 4	35	23.7	6	19.500	0.097	88.6	— 4	5841
5835	9.8		6	2.60	1	3.0870	0.0024	— 2	41	52.8	1	19.501	0.097	93.8	— 2	5904
5836	9	23	7	17.54	2	+ 3.1096	— 0.0046	— 6	58	42.0	2	+ 19.526	+ 0.095	96.7	— 7	5959
5837	9		7	23.76	1	3.0864	0.0023	— 2	38	27.5	1	19.528	0.094	81.8	— 2	5910
5838	8		7	55.94	7	3.0896	0.0026	— 3	17	14.7	7	19.539	0.093	85.6	— 3	5592
5839	5		8	6.48	9	3.1076	0.0045	— 6	41	45.1	7	19.542	0.093	87.3; 85.8	— 6	6170
5840	9.8		8	31.71	4	3.0865	0.0023	— 2	43	41.8	4	19.550	0.092	90.3	— 2	5913
5841	8	23	9	0.44	3	+ 3.1074	— 0.0045	— 6	46	32.8	1	+ 19.560	+ 0.092	89.1; 92.8	— 6	6174
5842	8		9	8.54	10	3.0990	0.0036	— 5	11	12.1	9	19.562	0.091	86.6; 87.7	— 5	5958
5843	6.7		9	23.28	5	3.0936	0.0030	— 4	9	1.3	5	19.567	0.090	86.0	— 4	5852
5844	9.8		9	27.00	1	3.0946	0.0031	— 4	21	40.6	1	19.568	0.090	76.8	— 4	5853
5845	7.8		9	48.29	10	3.0829	0.0019	— 2	4	41.4	8	19.575	0.089	85.1	— 2	5914
5846	9.8	23	10	1.73	3	+ 3.0914	— 0.0028	— 3	47	40.0	3	+ 19.584	+ 0.089	86.4	— 3	5600
5847*)	8.9		10	24.21	5	3.0836	0.0020	— 2	14	29.6	5	19.586	0.088	88.9	— 2	5917
5848**)	8.9		10	24.54	1	3.0836	0.0020	— 2	14	26.3	—	19.586	0.088	93.8	— 2	5917
5849	9		10	26.16	2	3.1067	0.0043	— 6	37	43.8	2	19.587	0.089	91.8	— 6	5178
5850	8		10	33.54	12	3.0848	0.0021	— 2	29	2.2	12	19.589	0.088	86.9	— 2	5918

*) Dupl. austr.
**) Dpl. sq.
δ approxim.

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	′	″		″	″		°	
5851	9.8	23	10	34.22	1	+ 3.0968	— 0.0034	— 4	52	41.7	1	+ 19.589	+ 0.088	87.7	— 5	5959
5852	7.8		11	3.70	8	3.0976	0.0034	— 5	5	23.6	5	19.598	0.087	86.5; 84.7	— 5	5961
5853	8		11	25.90	4	3.0830	0.0019	— 2	10	27.3	4	19.605	0.086	87.8	— 2	5920
5854	8.9		11	42.32	8	3.0977	0.0035	— 5	10	39.4	4	19.610	0.086	86.5; 90.3	— 5	5963
5855	8.9		11	46.00	4	3.0903	0.0027	— 3	40	54.5	3	19.611	0.086	86.8; 84.4	— 3	5607
5856	9.8	23	11	49.24	2	+ 3.0887	— 0.0025	— 3	21	4.8	2	+ 19.612	+ 0.086	88.3	— 3	5609
5857	9		12	4.13	2	3.0884	0.0025	— 3	18	57.4	1	19.617	0.085	89.7	— 3	5611
5858	9.8		12	16.92	5	3.0847	0.0021	— 2	33	9.1	1	19.621	0.085	88.0; 92.7	— 2	5925
5859	9		12	28.86	6	3.0848	0.0021	— 2	34	53.0	5	19.624	0.084	88.8; 88.0	— 2	5926
5860	9.8		12	39.13	5	3.1000	0.0037	— 5	45	20.9	3	19.627	0.084	92.0; 88.8	— 5	5965
5861	9	23	12	46.50	2	+ 3.1056	— 0.0044	— 6	56	31.6	2	+ 19.630	+ 0.084	96.7	— 7	5981
5862	8.9		12	52.95	3	3.0880	0.0024	— 3	16	36.6	3	19.632	0.083	85.1	— 3	5614
5863	6		13	10.72	7	3.0998	0.0037	— 5	46	48.1	4	19.637	0.083	89.8; 90.5	— 5	5966
5864	9		13	34.58	3	3.0828	0.0018	— 2	13	54.0	2	19.644	0.082	90.4; 91.2	— 2	5932
5865	9.8		13	42.28	2	3.0899	0.0026	— 3	44	35.1	2	19.646	0.082	82.3	— 3	5619
5866	9	23	13	53.54	4	+ 3.0829	— 0.0018	— 2	15	41.4	2	+ 19.649	+ 0.081	89.5; 87.7	— 2	5934
5867	7		14	2.68	5	3.0936	0.0030	— 4	34	21.0	5	19.652	0.082	86.6	— 4	5868
5868	9.8		14	12.78	3	3.0889	0.0025	— 3	34	20.9	3	19.655	0.081	84.4	— 3	5620
5869	9.8		14	26.01	2	3.1053	0.0044	— 7	6	25.6	1	19.659	0.081	87.2; 81.7	— 7	5989
5870	7		14	29.75	5	3.1027	0.0041	— 6	33	46.5	5	19.660	0.081	87.6	— 6	6191
5871	8.9	23	14	53.28	4	+ 3.0972	— 0.0034	— 5	25	36.1	3	+ 19.667	+ 0.080	90.5; 89.4	— 5	5972
5872	8		15	3.15	6	3.1036	0.0042	— 6	51	0.7	6	19.669	0.080	90.3	— 6	6193
5873	7		15	10.34	10	3.0966	0.0033	— 5	19	45.4	7	19.671	0.079	88.0	— 5	5973
5874	8.9		15	11.25	2	3.1024	0.0041	— 6	36	44.1	1	19.672	0.079	84.8; 78.8	— 6	6194
5875	8.9		15	21.42	8	3.0827	0.0018	— 2	17	6.0	8	19.674	0.079	88.0	— 2	5942
5876	9.8	23	15	41.41	2	+ 3.1045	— 0.0043	— 7	8	28.5	1	+ 19.680	+ 0.079	87.2; 92.8	— 7	5994
5877	8.9		15	54.43	9	3.0834	0.0018	— 2	28	56.5	9	19.684	0.078	87.6	— 2	5943
5878	9		16	34.20	5	3.0817	0.0016	— 2	7	41.9	5	19.695	0.076	91.2	— 2	5944
5879	9		16	37.73	3	3.0974	0.0035	— 5	41	46.2	3	19.696	0.076	85.8	— 5	5978
5880	9.8		17	36.14	3	3.0808	0.0015	— 1	58	41.0	3	19.712	0.074	81.1	— 2	5947
5881	9	23	18	15.02	3	+ 3.0972	— 0.0035	— 5	51	28.3	2	+ 19.722	+ 0.072	92.1; 89.8	— 5	5983
5882	8.9		18	27.98	15	3.0824	0.0017	— 2	23	57.6	15	19.725	0.072	87.6	— 2	5951
5883	9		18	32.71	1	3.1005	0.0039	— 6	40	12.1	1	19.727	0.073	95.8	— 6	6203
5884	9		18	36.80	2	3.0963	0.0034	— 5	42	19.2	2	19.728	0.073	96.8	— 5	5985
5885	9		18	45.23	3	3.0835	0.0018	— 2	40	38.5	3	19.730	0.072	88.8	— 2	5952
5886	9.8	23	18	48.33	7	+ 3.0969	— 0.0035	— 5	52	12.3	3	+ 19.731	+ 0.072	88.5; 82.2	— 6	6204
5887	9		19	4.08	1	3.0862	0.0021	— 3	20	3.2	1	19.735	0.071	92.7	— 3	5632
5888	9.8		19	36.60	8	3.0960	0.0034	— 5	45	33.1	5	19.743	0.071	93.2	— 5	5989
5889	9		20	19.54	1	3.0937	0.0031	— 5	17	47.8	1	19.754	0.069	89.8	— 5	5992
5890	8.9		20	27.62	6	3.0960	0.0034	— 5	53	31.8	3	19.756	0.069	91.8; 90.1	— 6	6213
5891	9	23	20	27.80	2	+ 3.0951	— 0.0033	— 5	39	27.8	2	+ 19.756	+ 0.069	79.3	— 5	5993
5892	8.9		21	8.45	8	3.0854	0.0020	— 3	17	38.4	8	19.765	0.068	86.6	— 3	5639
5893	9		21	30.73	1	3.0822	0.0015	— 2	31	27.8	1	19.772	0.067	91.8	— 2	5962
5894	8.9		21	52.59	12	3.0806	0.0013	— 2	7	44.3	9	19.777	0.066	86.9; 86.1	— 2	5965
5895	9.8		21	55.19	2	3.0844	0.0018	— 3	7	4.0	2	19.778	0.066	89.8	— 3	5642
5896	9	23	22	0.44	1	+ 3.0948	— 0.0033	— 5	48	1.1	1	+ 19.779	+ 0.066	86.8	— 5	5995
5897	8.9		22	5.04	8	3.0974	0.0036	— 6	28	45.2	8	19.780	0.066	86.4	— 6	6218
5898	9		22	28.14	2	3.0919	0.0029	— 5	7	4.5	1	19.786	0.065	94.7	— 5	5997
5899	9		22	29.00	2	3.0991	0.0040	— 6	59	46.0	1	19.786	0.065	96.7	— 7	6023
5900	8.7		22	35.57	4	3.0954	0.0034	— 6	2	57.9	4	19.787	0.065	87.3	— 6	6220

№	Gr.	A. R. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0			Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.	
		h	m	s		s	s	°	'	"		"	"		°	
5901	8.9	23	22	52.65	6	+ 3.0804	— 0.0013	— 2	7	49.0	3	+ 19.791	+ 0.064	87.1; 89.1	— 2	5971
5902	9.8		23	11.70	5	3.0882	0.0025	— 4	15	23.7	5	19.796	0.064	86.4	— 4	5890
5903	7.6		23	17.47	16	3.0815	0.0014	— 2	27	5.8	16	19.797	0.063	83.1	— 2	5973
5904	7.6		23	19.79	8	3.0917	0.0029	— 5	11	10.5	6	19.798	0.063	87.4; 85.4	— 5	5999
5905	8.9		23	27.89	6	3.0983	0.0038	— 6	58	20.8	4	19.800	0.063	90.4; 91.0	— 7	6028
5906	9.8	23	23	46.79	5	+ 3.0979	— 0.0038	— 6	55	29.0	1	+ 19.804	+ 0.063	92.7; 81.7	— 7	6029
5907	9		24	1.05	1	3.0942	0.0032	— 5	58	1.1	1	19.807	0.062	86.8	— 6	6225
5908	9.8		24	1.72	1	3.0869	0.0022	— 3	59	2.4	1	19.807	0.062	76.8	— 4	5891
5909	9.8		24	7.48	1	3.0856	0.0020	— 3	38	57.5	1	19.809	0.062	94.8	— 3	5649
5910	9.8		24	44.91	1	3.0895	0.0026	— 4	46	35.9	1	19.817	0.061	92.8	— 4	5895
5911	8.9	23	24	46.65	11	+ 3.0928	— 0.0031	— 5	43	20.3	11	+ 19.818	+ 0.060	89.5	— 5	6003
5912	7		24	49.94	7	3.0972	0.0037	— 6	56	55.5	5	19.818	0.061	87.9	— 7	6036
5913	8		25	14.59	2	3.0897	0.0026	— 4	54	47.4	2	19.824	0.059	87.3	— 5	6005
5914	7.8		25	19.64	7	3.0891	0.0025	— 4	44	35.4	6	19.825	0.059	86.5; 85.5	— 4	5896
5915	6		25	48.18	1	3.0784	0.0009	— 1	44	51.9	1	19.831	0.058	93.8	— 1	4450
5916	8.9	23	25	58.41	5	+ 3.0851	— 0.0019	— 3	41	25.0	4	+ 19.833	+ 0.058	83.6; 80.8	— 3	5651
5917	9.8		26	26.97	5	3.0956	0.0036	— 6	48	3.9	5	19.839	0.057	91.0	— 6	6229
5918	7		26	45.31	6	3.0848	0.0019	— 3	40	43.0	2	19.843	0.056	83.6; 88.8	— 3	5655
5919	8.9		26	59.91	4	3.0961	0.0037	— 7	3	48.2	4	19.846	0.056	92.0	— 7	6046
5920	7.8		27	17.73	7	3.0892	0.0026	— 5	3	48.5	7	19.850	0.055	86.8	— 5	6011
5921	8	23	27	31.72	9	+ 3.0819	— 0.0014	— 2	54	23.3	9	+ 19.853	+ 0.055	85.8	— 3	5661
5922	9		27	35.52	3	3.0915	0.0030	— 5	47	39.9	3	19.854	0.055	92.5	— 5	6012
5923	6.7		27	58.87	9	3.0786	0.0009	— 1	54	36.4	9	19.858	0.054	87.8	— 2	5986
5924	8.7		29	4.18	3	3.0866	0.0022	— 4	31	7.2	3	19.872	0.052	89.4	— 4	5912
5925	9		29	16.15	2	3.0852	0.0020	— 4	6	9.2	2	19.874	0.052	88.3	— 4	5913
5926	9.8	23	29	19.78	6	+ 3.0801	— 0.0011	— 2	29	11.7	6	+ 19.874	+ 0.051	88.4	— 2	5993
5927	9.8		29	36.06	6	3.0922	0.0032	— 6	24	40.9	6	19.878	0.051	87.5	— 6	6239
5928	9		29	56.26	1	3.0935	0.0034	— 6	58	46.8	1	19.882	0.050	95.8	— 7	6054
5929	8.9		30	34.89	6	3.0832	0.0016	— 3	37	31.0	6	19.889	0.049	85.1	— 3	5669
5930	8.9		31	7.58	9	3.0787	0.0009	— 2	10	59.1	8	19.895	0.048	88.2	— 2	5998
5931	9.8	23	31	40.42	2	+ 3.0786	— 0.0008	— 2	10	6.7	1	+ 19.901	+ 0.047	88.8	— 2	5999
5932	8.9		31	41.86	6	3.0915	0.0032	— 6	38	26.4	5	19.901	0.047	86.3; 85.6	— 6	6248
5933	8.7		31	57.16	7	3.0780	0.0007	— 1	59	59.5	7	19.904	0.046	86.4	— 2	6000
5934	8.9		32	22.19	3	3.0911	0.0032	— 6	39	9.7	1	19.908	0.046	86.2; 89.8	— 6	6251
5935	8.9		32	39.49	5	3.0824	0.0015	— 3	37	28.0	5	19.911	0.045	86.4	— 3	5677
5936	9	23	33	13.18	1	+ 3.0891	— 0.0028	— 6	7	31.7	1	+ 19.917	0.044	87.8	— 6	6253
5937	9.8		33	13.87	11	3.0800	0.0011	— 2	49	10.1	11	19.917	+ 0.044	86.9	— 2	6007
5938	9		33	15.25	1	3.0827	0.0016	— 3	48	16.7	1	19.917	0.044	93.8	— 3	5682
5939	9.8		33	21.07	2	3.0876	0.0025	— 5	36	50.1	2	19.918	0.044	86.8	— 5	6028
5940	9.8		33	21.14	5	3.0894	0.0029	— 6	16	23.8	4	19.918	0.044	92.2	— 6	6254
5941	9.8	23	33	37.28	1	+ 3.0858	— 0.0022	— 5	0	19.6	1	+ 19.921	+ 0.043	89.8	— 5	6030
5942	8		33	40.23	14	3.0890	0.0028	— 6	12	39.8	9	19.922	0.043	88.7; 87.4	— 6	6256
5943	9		34	0.14	2	3.0906	0.0032	— 6	58	41.0	2	19.925	0.042	96.7	— 7	6067
5944	9.8		34	6.22	5	3.0787	0.0008	— 2	25	13.4	5	19.926	0.042	89.2	— 2	6013
5945	8.9		34	59.62	2	3.0906	0.0033	— 7	8	28.1	2	19.934	0.040	87.3	— 7	6070
5946	9.8	23	35	4.05	2	+ 3.0813	— 0.0014	— 3	31	23.7	2	+ 19.935	+ 0.040	93.7	— 3	5688
5947	8.9		35	7.62	6	3.0852	0.0022	— 5	5	19.3	6	19.936	0.040	86.8	— 5	6033
5948	8.7		35	42.22	7	3.0888	0.0030	— 6	38	50.0	6	19.941	0.039	87.6	— 6	6262
5949	8.9		36	12.19	14	3.0776	0.0006	— 2	9	57.6	14	19.946	0.038	87.0	— 2	6021
5950	9		36	26.96	1	3.0815	0.0014	— 3	48	25.2	1	19.948	0.037	92.8	— 3	5693

№	Gr.	A. R. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D.
		h m s		s	s	° ' "		"	"		°
5951	8.9	23 36 27.13	1	+ 3.0824	− 0.0016	− 4 12 58.8	1	+ 19.948	+ 0.037	96.8	− 4 5935
5952	9.8	37 26.14	5	3.0815	0.0015	− 3 58 39.4	4	19.957	0.036	84.8	− 4 5939
5953	8.9	37 39.98	4	3.0882	0.0030	− 6 56 12.6	4	19.959	0.035	95.0	− 7 6074
5954	9.8	37 42.31	2	3.0862	0.0026	− 6 5 30.0	2	19.959	0.035	92.3	− 6 6269
5955	9	38 15.03	1	3.0866	0.0027	− 6 26 34.7	1	19.964	0.034	96.8	− 6 6273
5956	7.8	23 38 22.96	5	+ 3.0808	− 0.0013	− 3 50 27.3	3	+ 19.965	+ 0.034	85.6	− 3 5697
5957	9.8	38 24.84	4	3.0848	0.0028	− 5 40 24.2	4	19.965	0.034	88.8	− 5 6041
5958	9	39 13.51	2	3.0793	0.0010	− 3 17 2.4	2	19.972	0.032	90.7	− 3 5698
5959	9	39 15.07	4	3.0778	0.0006	− 2 36 40.4	4	19.972	0.032	91.3	− 2 6032
5960	9.8	40 17.34	3	3.0864	0.0029	− 6 58 6.3	3	19.980	0.030	96.4	− 7 6082
5961	9	23 40 25.44	4	+ 3.0767	− 0.0004	− 2 11 22.4	2	+ 19.981	+ 0.030	90.0; 86.8	− 2 6034
5962	9.8	40 32.21	7	3.0845	0.0024	− 6 7 35.7	6	19.982	0.030	86.4; 87.6	− 6 6286
5963	9.8	41 13.38	17	3.0765	0.0003	− 2 10 32.6	14	19.987	0.028	89.0; 90.2	− 2 6037
5964	9	41 19.84	2	3.0777	0.0006	− 2 49 1.7	2	19.987	0.028	90.3	− 2 6038
5965	8	41 28.27	9	3.0846	0.0026	− 6 29 32.9	9	19.988	0.028	88.8	− 6 6291
5966	8.7	23 41 29.17	11	+ 3.0820	− 0.0018	− 5 7 43.6	8	+ 19.988	+ 0.028	85.9	− 5 6048
5967	8.9	41 30.97	6	3.0803	0.0014	− 4 12 12.0	6	19.989	0.028	87.1	− 4 5957
5968	9.8	41 39.86	2	3.0828	0.0021	− 5 35 51.6	2	19.990	0.027	92.3	− 5 6052
5969	8.9	41 42.36	3	3.0834	0.0022	− 5 54 21.3	3	19.990	0.027	87.2	− 6 6293
5970	9	41 42.87	1	3.0779	0.0007	− 2 58 17.1	1	19.990	0.027	92.7	− 3 5706
5971	6.5	23 41 46.42	7	+ 3.0787	− 0.0009	− 3 25 42.1	7	+ 19.990	+ 0.027	86.1	− 3 5707
5972	6	42 22.50	6	3.0850	0.0028	− 7 2 48.1	6	19.994	0.026	87.6	− 7 6086
5973	8.7	42 35.54	9	3.0814	0.0018	− 5 6 8.9	4	19.996	0.025	85.1; 86.3	− 5 6056
5974	8.7	43 22.82	10	3.0829	0.0023	− 6 13 10.7	10	20.001	0.024	88.4	− 6 6297
5975	9.8	43 46.77	1	3.0794	0.0012	− 4 15 14.2	1	20.004	0.023	81.8	− 4 5961
5976	8.9	23 44 40.14	8	+ 3.0832	− 0.0026	− 6 56 2.5	3	+ 20.009	+ 0.021	96.4	− 7 6093
5977	9	45 0.48	9	3.0763	0.0003	− 2 36 10.6	9	20.011	0.021	89.2	− 2 6049
5978	8	45 0.53	2	3.0772	0.0006	− 3 11 10.2	1	20.011	0.021	84.8; 82.8	− 3 5718
5979	8	45 19.71	6	3.0784	0.0011	− 4 4 17.4	4	20.013	0.020	88.5; 87.3	− 4 5965
5980	8.9	45 23.85	6	3.0785	0.0011	− 4 9 0.0	3	20.013	0.020	88.3; 87.8	− 4 5968
5981	9.8	23 45 30.63	2	+ 3.0771	− 0.0006	− 3 12 28.6	2	+ 20.014	+ 0.020	84.3	− 3 5719
5982	8.9	45 35.64	8	3.0817	0.0022	− 6 20 48.8	7	20.014	0.020	91.5; 90.8	− 6 6303
5983	9.8	46 0.60	3	3.0813	0.0023	− 6 17 46.3	3	20.016	0.019	90.5	− 6 6306
5984	9.8	46 13.00	1	3.0780	0.0010	− 4 3 50.1	1	20.018	0.018	91.8	− 4 5971
5985	9.8	46 25.76	2	3.0765	0.0005	− 3 2 11.5	2	20.019	0.018	89.8	− 3 5720
5986	9.8	23 46 32.30	1	+ 3.0792	− 0.0015	− 4 57 43.6	1	+ 20.019	+ 0.018	94.7	− 5 6070
5987	6.7	46 45.69	3	3.0775	0.0009	− 3 49 19.9	3	20.020	0.017	80.4	− 3 5723
5988	9	47 1.55	7	3.0753	0.0000	− 2 14 18.7	5	20.022	0.017	89.9	− 2 6052
5989	8.9	47 32.26	12	3.0753	0.0000	− 2 19 43.1	7	20.024	0.016	88.6	− 2 6056
5990	9.8	48 11.84	1	3.0800	0.0021	− 6 23 13.5	1	20.027	0.014	92.8	− 6 6313
5991	9.8	23 48 24.90	1	+ 3.0787	− 0.0016	− 5 23 24.5	1	+ 20.028	+ 0.014	96.8	− 5 6079
5992	8	48 29.76	11	3.0754	0.0001	− 2 36 49.9	11	20.028	0.014	87.8	− 2 6059
5993	8	48 58.47	6	3.0783	0.0015	− 5 20 8.6	5	20.031	0.013	87.4; 85.6	− 5 6081
5994	8	49 14.44	5	3.0785	0.0016	− 5 34 13.6	5	20.032	0.013	87.0	− 5 6083
5995	9	49 26.37	1	3.0756	0.0003	− 2 59 46.0	1	20.032	0.012	92.7	− 3 5731
5996	8.9	23 49 57.25	4	+ 3.0758	− 0.0004	− 3 20 31.4	4	+ 20.034	+ 0.011	85.0	− 3 5734
5997	9.8	50 5.80	3	3.0765	0.0008	− 4 9 43.3	3	20.035	0.011	93.5	− 4 5981
5998	9.8	50 17.80	4	3.0789	0.0022	− 6 38 44.7	4	20.036	0.011	91.0	− 6 6322
5999	9.8	50 54.48	1	3.0788	0.0023	− 6 55 30.2	1	20.038	0.009	96.8	− 7 6115
6000	8.9	50 55.03	3	3.0757	0.0005	− 3 38 39.3	3	20.038	0.009	85.1	− 3 5735

№	Gr.	A. R. 1880.0 h	m	s	Zahl der Beob.	Praec.	Var. saec.	Decl. 1880.0 °	'	"	Zahl der Beob.	Praec.	Var. saec.	Ep. 1800 +	B. D. °	
		h	m	s		s	s	°	'	"		"	"		°	
6001	9.8	23	50	55.05	6	+ 3.0754	— 0.0003	— 3	16	54.3	2	+ 20.038	+ 0.009	83.3; 79.8	— 3	5736
6002	8.9		51	0.11	11	3.0780	0.0018	— 6	7	30.7	5	20.038	0.009	88.3; 87.2	— 6	6324
6003	8.9		51	38.38	11	3.0776	0.0018	— 6	7	35.9	6	20.040	0.008	88.3; 89.1	— 6	6329
6004	9.8		51	52.16	3	3.0749	0.0002	— 3	2	26.7	3	20.041	0.007	88.8	— 3	5738
6005	9.8		51	54.06	7	3.0745	0.0000	— 2	38	54.7	7	20.041	0.007	90.6	— 2	6067
6006	8.9	23	52	0.11	6	+ 3.0761	— 0.0010	— 4	38	51.6	6	+ 20.042	+ 0.007	85.8	— 4	5989
6007	8.9		52	14.47	5	3.0755	0.0007	— 4	1	15.1	5	20.042	0.007	84.6	— 4	5992
6008	9		52	15.38	1	3.0776	0.0020	— 6	39	9.2	1	20.042	0.006	96.8	— 6	6331
6009	8.9		52	23.04	9	3.0742	+ 0.0002	— 2	21	12.9	9	20.043	0.006	87.3	— 2	6068
6010	5		52	31.88	4	3.0756	— 0.0007	— 4	13	17.9	4	20.043	0.006	87.0	— 4	5996
6011	8.7	23	53	22.22	4	+ 3.0747	— 0.0003	— 3	30	43.7	4	+ 20.045	+ 0.004	83.3	— 3	5741
6012	8.7		53	25.02	4	3.0740	+ 0.0002	— 2	31	10.0	4	20.045	0.004	84.8	— 2	6071
6013	7		53	31.30	15	3.0767	— 0.0019	— 6	33	33.4	10	20.046	0.004	86.9; 85.8	— 6	6335
6014	8		53	39.64	3	3.0741	+ 0.0001	— 2	46	48.4	3	20.046	0.004	83.4	— 2	6072
6015	9.8		53	41.68	3	3.0735	+ 0.0006	— 1	52	6.6	3	20.046	0.004	85.4	— 2	6073
6016	9.8	23	53	50.71	3	+ 3.0762	— 0.0017	— 6	9	44.2	2	+ 20.046	+ 0.003	86.8; 91.8	— 6	6337
6017	9		54	20.41	2	3.0741	0.0000	— 3	3	24.5	2	20.048	0.002	89.8	— 3	5744
6018	8.9		54	22.81	6	3.0746	0.0005	— 3	58	31.4	5	20.048	0.002	84.0; 85.4	— 4	6003
6019	8.9		54	50.92	5	3.0753	0.0013	— 5	35	42.6	5	20.049	0.002	87.0	— 5	6097
6020	8		54	53.84	9	3.0757	0.0018	— 6	30	12.1	3	20.049	0.001	86.1; 91.1	— 6	6341
6021	8	23	54	58.46	10	+ 3.0757	— 0.0018	— 6	32	31.7	4	+ 20.049	+ 0.001	86.6	— 6	6342
6022	9		55	6.52	2	3.0738	0.0000	— 3	0	24.2	1	20.049	+ 0.001	89.8; 86.8	— 3	5746
6023	5.6		55	40.50	4	3.0740	0.0003	— 3	41	44.1	4	20.050	0.000	83.3	— 3	5749
6024	5		55	48.33	4	3.0752	0.0018	— 6	40	52.2	4	20.050	0.000	88.0	— 6	6345
6025	8.9		55	50.98	6	3.0748	0.0014	— 5	53	2.2	4	20.050	0.000	89.5; 89.1	— 6	6346
6026	9.8	23	55	53.14	1	+ 3.0740	— 0.0004	— 3	56	33.7	1	+ 20.051	— 0.001	92.8	— 4	6006
6027	8		55	58.52	7	3.0738	0.0001	— 3	26	3.3	6	20.051	0.001	84.5; 85.8	— 3	5750
6028	9		56	8.08	2	3.0734	+ 0.0002	— 2	48	20.3	2	20.051	0.001	90.3	— 2	6080
6029	8.9		56	26.24	6	3.0745	— 0.0014	— 5	51	16.6	3	20.051	0.002	91.1; 92.4	— 5	6100
6030	9.8		57	8.50	3	3.0741	— 0.0015	— 6	7	43.7	3	20.052	0.003	92.5	— 6	6351
6031	8	23	57	11.89	5	+ 3.0737	— 0.0008	— 4	48	48.9	5	+ 20.052	— 0.003	83.0	— 4	6013
6032	9		57	32.75	3	3.0729	+ 0.0006	— 2	18	27.9	3	20.053	0.004	89.1	— 2	6084
6033	8.9		57	50.17	1	3.0734	— 0.0008	— 4	58	34.9	1	20.053	0.004	76.8	— 5	6103
6034	9		58	2.22	3	3.0735	— 0.0011	— 5	35	48.4	3	20.053	0.005	87.1	— 5	6105
6035	9.8		58	32.64	2	3.0726	+ 0.0009	— 1	43	39.5	2	20.053	0.006	89.8	— 1	4524
6036	9	23	58	36.38	2	+ 3.0734	— 0.0019	— 7	19	17.8	2	+ 20.053	— 0.006	96.7	— 7	6143
6037	8.9		59	1.74	5	3.0726	+ 0.0005	— 2	31	17.6	2	20.053	0.007	92.4; 91.3	— 2	6090
6038	8.9		59	9.35	19	3.0726	+ 0.0006	— 2	27	46.1	6	20.053	0.007	87.0; 84.4	— 2	6091
6039	5		59	11.55	7	3.0729	— 0.0015	— 6	22	42.9	7	20.054	0.007	86.6	— 6	6358
6040	8		59	16.96	2	3.0727	— 0.0005	— 4	31	9.2	2	20.054	0.007	88.3	— 4	6019
6041	8.9	23	59	21.61	20	+ 3.0725	+ 0.0006	— 2	29	14.8	10	+ 20.054	— 0.007	87.2	— 2	6094

AUSGESCHLOSSENE BEOBACHTUNGEN.

Datum der Beobachtung			№	α (1880.0)			δ (1880.0)			*Bemerkung*	*B. D.*
				h	m	s	°	′	″		°
1883	November	10	7257	1	1	39.14	− 5	23	9.4	1. Fad. 1. Vern.	− 5 192
82	November	14	6052	1	22	12.08	− 4	11	45.1	$\alpha - 22^s$	− 4 213
85	November	3	9445	1	57	52.04	− 6	10	6.7		
91	November	29	17413	1	57	52.02	− 6	10	19.9	δ unsicher	− 6 595
95	November	28	21334	1	57	52.36	− .	.	. .		
78	November	27	2509	3	49	16.37	− 2	4	40.0	Etwas unsicher	− 2 754
78	November	15	2488	4	0	6.70	− 1	49	47.3	$\delta + 3'$	− 1 585
87	Februar	11	12142	5	9	4.32	− 5	51	19.6	1 Fad. 1. Vern.	− 5 1203
84	Januar	25	7449	5	26	7.66	− 7	23	30.6	1. Fad. Grösse 8	− 7 1106 Gr. 5
83	Februar	28	6420	5	31	5.82	− 6	8	23.2	$\alpha - 22^s$	− 6 1255
85	März	2	8570	5	34	27.52	− 3	29	34.5	1. Fad. 1. Vern.	nicht vorhanden
83	März	4	6438	5	40	26.27	− 6	24	33.1	$\delta + 30'$	− 5 1389
87	Februar	20	12236	5	59	59.65	− 5	52	20.9	$\alpha + 10^s$	− 5 1499
84	Februar	19	7603	6	7	48.79	− 7	12	58.1	$\alpha + 20^s$	− 7 1332
90	Februar	22	15312	6	17	50.68	− 1	26	10.7	1. Fad. 1. Vern.	− 1 1226
87	März	1	12296	6	27	54.95	− 5	55	50.2	$\alpha + 20^s$	− 5 2687
87	März	8	12325	6	51	6.42	− 6	4	34.4	$\delta + 2'$	− 6 1838
87	März	11	12404	7	34	3.30	− 6	42	31.5	$\alpha - 2^s$	− 6 2229
85	April	1	8717	8	32	43.44	− 4	13	47.6	$\alpha + 2^s$ (1)	− 4 2407
82	April	5	5460	9	32	24.74	− 5	58	39.1	. . . .	nicht vorhanden
84	April	11	7906	9	55	1.40	− .	.	. .	Beobacht. richtig,	
84	April	12	7930	9	55	1.36	− 6	7	38.5	10^s später, als № 2601 d Warsch. Cat.	
86	April	3	10324	10	1	11.99	− 7	24	21.8	$\delta - 3'$	− 7 2960
90	April	15	15507	10	13	23.73	− 2	34	51.3	$\delta - 1^{\circ}$	− 3 2896
90	April	15	15508	10	18	50.78	− 1	54	35.8	$\delta - 1^{0}$	− 2 3138
86	April	16	10427	10	32	5.15	− 2	35	2.2	$\delta - 1^{0}$	− 3 2968
79	April	18	2695	10	52	31.15	− 5	43	27.1	2 Fad. 1. Vern.	− 5 3178
93	April	19	19157	10	55	40.59	− 5	53	8.3	$\delta + 15'$	− 5 3184
84	Mai	14	8051	13	30	17.99	− 5	32	30.9	$\alpha - 50^s$ (2)	− 5 3730
85	Mai	25	9176	14	40	18.74	− 4	33	40.0	$\alpha + 8^m$ (3)	− 4 3772
89	Juni	8	14735	15	50	37.87	− 4	10	6.1	. . . .	nicht vorhanden
76	Juni	5	7	16	16	4.12	− 2	11	31.6	. . . .	nicht vorhanden
89	Juli	8	14797	17	28	36.99	− 4	30	54.4	$\alpha - 2^m$	− 4 4296
82	Juni	18	5585	17	54	41.16	− 2	49	17.2	$\delta + 15'$ (4)	− 2 4529
77	August	15	1078	18	27	49.54	− 5	48	8.2	$\alpha - 4^m$ (5)	− 5 4675
92	Juli	27	18308	18	40	34.91	− 3	20	21.6	. . . .	nicht vorhanden
79	August	21	3134	18	57	40.47	− 3	44	54.8	. . . .	nicht vorhanden
86	August	27	11114	19	46	28.94	− 4	56	17.9	$\alpha + 1^s$	− 5 5093
76	September	11	475	19	59	3.09	− 6	44	12.2	. . . .	nicht vorhanden
79	August	22	3160	20	12	12.91	− 6	20	10.2	$\alpha + 20^s$	− 6 5445
80	September	1	4552	20	15	44.27	− 3	9	28.1	$\alpha + 1^m$; $\delta + 10''$, № 5030 Warsch. Cat.	
88	September	20	13965	20	24	53.37	− 2	59	2.3	$\alpha + 2^s$	− 3 4928
82	August	15	5696	20	49	35.18	− 4	11	30.3	$\delta + 3'$	− 4 5305
76	August	13	212	21	0	27.69	− 3	14	30.4	$\alpha + 10^s$	− 3 5121
80	September	10	4611	21	5	13.85	− 2	4	30.9	$\alpha - 10^s$	− 2 5474
76	September	12	490	21	40	35.01	− 6	34	4.6	. . . .	nicht vorhanden
77	September	28	1202	21	49	15.75	− 4	47	59.7	δ unsicher	
77	September	23	1195	21	56	38.48	− 4	2	3.0	Beobacht. unsicher	− 4 5599
76	October	14	658	22	23	8.29	− 3	5	26.9	. . . .	nicht vorhanden
86	September	16	11466	22	49	1.12	− 7	7	42.3	. . . .	nicht vorhanden
88	September	17	13930	22	59	38.57	− 2	44	5.5	$\alpha + 10^s$	− 2 5883
76	October	2	559	23	16	12.83	− 2	3	52.6	(*).	nicht vorhanden
81	October	7	5283	23	29	4.08	− 4	44	6.3	$\delta + 13'$	− 4 5912
76	October	15	687	23	48	23.08	− 4	10	32.7	$\alpha - 3^m$	− 4 5967

(1) $\alpha + 2^s$ stimmt mit № 2259 d. Warschauer Catalogs
(2) $\alpha - 50^s$ „ „ „ 3326 „ „
(3) $\alpha + 8^m$ „ „ „ 3620 „ „
(4) $\delta + 15'$ „ „ „ 4273 „ „
(5) $\alpha - 4^m$ „ „ „ 4370 „ „
(*) 1891 Oct. 24 und 25 gesucht, aber nicht gefunden.

REGISTER DER EINZELBEOBACHTUNGEN.

№ des Catalogs.	
1	11688. 11759. 19824.
2	590. 5935. 14049. 14111. 17315. 18632. 19895. 19913.
3	562. 11643. 15155.
4	11709.
5	689. 9317.
6	11773.
7	5300. 11578.
8	620. 638. 5289. 5318. 5947. 11820. 16107. 18659.
9	1273. 4672*). 11586. 11619. 17344. 17356.
10	750. 20614
11	608. 621. 639. 5948. 11689. 11821. 16108. 18660.
12	759. 11794. 11813. 13118. 18128.
13	1310. 11665. 11760. 19922.
14	13136.
15	620. 5290. 5949. 9318.
16	5234. 5243. 9382. 11795. 11814. 13129. 17373. 19849.
17	2497. 18781. 21300. 22090.
18	591. 1311. 5936. 11728. 14112. 19913.
19	675. 713. 5279. 9314. 19864.
20	11822.
21	563. 1274. 11644. 15156. 17357. 19896.
22	656. 5301. 15079. 15093.
23	5244. 5257. 11853.
24	19884.
25	11711. 11774.
26	564. 1302. 4686. 11587. 11645. 15157.
27	676. 714. 5280. 9805. 18822. 19865.
28	9383. 17374. 18772.
29	13141. 22091.
30	698. 2401. 5269. 18801
31	9331. 11761. 14113. 17345.
32	1275. 19897. 19914.
33	1318*). 9319. 11861. 15080. 15094. 16109. 22133.
34	2498. 9489. 13137. 18754. 21275. 21301.
35	9384. 18720.
36	11796. 14117. 19885.
37	17346.
38	17316.
39	15158.
40	11775.
41	1312. 5321. 11729. 11854. 16060. 18633. 19923.
42	9490. 13138. 13142. 18782. 21276.
43	18823.
44	9332. 11730. 17375.
45	5314. 11823. 14114.
46	9385. 18773.
47	17317.
48	5302. 9320. 11862. 16110. 21307. 22134.
49	2374. 9306. 18802. 19867. 22102.
50	15095.
51	2375. 9307. 18803. 22103.
52	2439. 9386. 20644.
53	2499. 3461. 16135. 18755. 22092.
54	3468. 9491. 13143. 18783. 21277. 22093.
55	1319. 5315. 11863. 16111. 22135.
56	2402. 9308. 15096. 18824. 18832. 19868.
57	7230
58	4691. 11776. 14118. 19886. 19924.
59	1313. 5322. 9333. 11762. 11815. 17318.22142.
60	2411.
61	18804.
62	7231. 21308.
63	19915.
64	13139. 13144. 22094.
65	1276. 15159.
66	9492. 18756.
67	2440. 6070. 20645.
68	11797. 11855. 14119. 19898.
69	2500. 3457. 13145. 22095.
70	7281. 9387. 18774. 21302.
71	3462. 16136. 21278.
72	2376. 6022. 9309. 15097. 16098. 18805. 18825. 18833. 22104.
73	1320. 5316. 6007. 9321. 9349. 11824. 11864. 16112. 17376. 22136. 22143.
74	7232. 21309.
75	1303. 4687. 4692. 5987. 7336. 11777. 15160. 19925.
76	9493. 13140. 18784.
77	14050. 14085.
78	1314. 4703. 7337. 9334. 11798. 16061. 19916.
79	3469. 9494. 21279.
80	2441. 9388. 18775.
81	22096.
82	2403. 7233. 18826. 18834.
83	21310.
84	11825. 11865. 22137. 22144.
85	16137. 21280.
86	11816. 11856.
87	21303.
88	2501. 3458. 20646.
89	2412. 2429. 6071*). 7267. 16099.
90	11763.
91	4693. 11588. 11778. 14120. 15161. 19926.
92	2377. 6023. 9310. 18806. 22105.
93	9495. 13146. 18785. 22097.
94	2442. 7282. 9389. 17377.
95	2378. 6024. 9311.
96	3463. 3469. 7313. 13147. 16138. 18786. 21281
97	11799. 19917.
98	1315. 4704. 5323. 11817. 11857. 16062. 17319. 19927. 22145.
99	1321. 5317. 6008. 9322. 11866. 16113. 22138.
100	1304. 9350. 11800.
101	6040. 7234. 16100. 18776. 18827. 18835. 21311.
102	2404. 2443. 6041. 7235. 16101. 18777. 18828. 18836. 21312.
103	2430. 6072.
104	1277. 7338. 15162.
105	4694. 5988. 11589. 11779.
106	21282.
107	22106.
108	5318. 9323. 11867. 16114. 22139.
109	3459. 3464. 3471. 7314. 13148. 16139. 18787. 22098.
110	21304.
111	11764. 11818. 11826. 11858. 22146.
112	2379. 5984. 9312. 18807. 22107.
113	3465. 7295. 7315. 16140.
114	1322. 6009.
115	18778. 18829.
116	7283. 9496. 17378. 21305.
117	2413. 6073. 7269.
118	1305. 4695. 5989. 11780. 16102. 19918. 19928.
119	6025.
120	2502. 18789.
121	7339. 11801. 15163.
122	11765. 11819. 11859. 22147.
123	2405. 6042. 7236. 18779. 18830.
124	1306. 4688. 5990. 11590. 11781. 16103. 19919. 19929.
125	11782. 16104. 19920. 19930.
126	1316. 4705. 5324. 11827.
127	1278. 7340. 15164.
128	3466. 3472. 7296. 13149. 16115. 22099.
129	2380. 6026. 9313. 18808. 22108.
130	21283.
131	11802.
132	11868. 22140.
133	22148.
134	2444. 7252. 20647.
135	9390. 18780.
136	11828. 11860.
137	2445. 7253. 20648.
138	2446. 3482. 6074.

*) 4672 δ+1′; 1318 δ−1′; 6071 dupl.

№ des Catalogs.		№ des Catalogs.	
139	1323. 5319. 6010. 11869. 22141.	207	1335. 9367.
140	2503. 3473. 3569. 7316. 9497. 13150. 16116. 16141. 17379. 18790. 21284. 22100.	208	4718. 5996. 9354. 11731.
141	21306.	209	7262. 9396.
142	7237. 9314. 18809. 21313. 22109.	210	2420. 22114.
143	9498. 13151. 16117. 17380. 16142. 22101.	211	17519.
144	1307. 4689. 4696. 5345. 5991. 7341. 11783. 16105. 19921. 19931.	212	7301. 7320. 9450. 9455.
145	7284.	213	5331. 9348. 11889.
146	2406. 2414. 6043. 7269. 18831.	214	1326. 4746. 6014.
147	21285.	215	6112. 7302.
148	2381. 6027. 7238. 9315. 18810. 22110.	216	13171.
149	1324. 5320. 6011.	217	2421. 6051. 7241. 22115.
150	7317. 9499. 16118. 17381. 18791. 20649. 21286.	218	3477. 4710. 4719. 5350. 5997*). 9339. 9355. 22156. 22173.
151	18837.	219	2433. 6082. 7263. 9397.
152	5325. 22149.	220	5332. 11890.
153	1279. 1308. 5346. 5992. 7342.	221	11732.
154	9324.	222	2385.
155	1280. 5993.	223	1336. 7363.
156	2504. 3460. 7206. 7297.	224	2466. 6113. 7303.
157	4697.	225	2453. 9427. 9451. 9456.
158	2447. 6075. 6085. 7270.	226	1327. 6031.
159	2415. 7239.	227	3492. 6088. 7290. 9404. 9452. 9457. 17393. 18845.
160	2382. 5985. 6028.	228	6015. 9325. 17520.
161	3483. 6076. 6086. 7285.	229	7264. 7277. 9398. 13162. 13172.
162	1317. 4706. 5326. 7358. 22150.	230	3493. 6089. 9405.
163	1309. 4690. 5347. 7343.	231	13163. 13173.
164	2407. 6044. 7254.	232	2467. 3571. 7225. 7304. 9458. 9474. 13155. 15108.
165	17383.	233	19932.
166	18839.	234	11733. 11833. 11874. 20020.
167	16119. 18792.	235	3572. 6114. 9475.
168	22151.	236	11734. 11834. 11875. 20021.
169	2416. 2448. 6045. 6077. 7255. 7271.	237	4720. 5351. 5998. 9340. 15116. 15124. 15168. 17491. 19933. 22157.
170	3484. 7286. 16120. 17384.	238	7321.
171	3467. 7287. 9392. 16121. 17385. 20650.	239	13156.
172	2383. 5986. 6029. 7240. 9316. 16106. 18840. 22111.	240	4736.
173	2408. 6046. 7256.	241	1291*). 4711. 5999. 7347. 7364. 15125. 15169. 17492.
174	2417. 2449. 6078. 7272.	242	2386. 6053. 14122. 22208.
175	1281. 4707. 5994. 7344. 11829. 11870.	243	1328. 4737. 4747. 5333. 9356. 11891.
176	3475. 7298. 7318. 13152. 18793.	244	3494. 6083. 7265. 7278. 9399. 13164. 13174. 18846.
177	5327. 7359. 22152.	245	4701. 22174.
178	2418. 6047. 7258. 17513.	246	7226. 7305. 17394.
179	7273. 9428.	247	9368. 17521.
180	2450. 7274. 9424.	248	2422. 7242. 22116.
181	6079.	249	2387. 6054. 22209.
182	7299. 7319. 9401. 13153.	250	11735. 11835. 11876. 20022.
183	2409. 2419. 6048. 7259. 9393. 17514. 18841. 22112.	251	2454. 6090. 7291. 9428. 9453. 17358. 17395.
184	1282. 4698. 5995. 7345. 11830. 11871. 15165. 22169.	252	4721. 5334. 15170. 17493. 22191.
185	7288. 9449. 17386.	253	19934.
186	5328. 7360. 9351. 11885. 22153.	254	1292. 1329. 4738. 6016. 9341. 9357. 11892. 15117. 22158.
187	1325. 6012.	255	1293. 11893. 22159.
188	2410. 2431. 6049. 6080. 7260. 7274. 9394. 9425. 17515. 18842. 22113.	256	14123.
189	4708. 7361. 9335. 11886. 22154. 22170.	257	7243. 9406.
190	7362. 9336. 9352. 11887. 22155. 22171.	258	3478. 5352. 7348. 19935. 19936. 22175.
191	2451. 9402. 13170.	259	1294. 1330. 1337. 4748. 15118.
192	13159.	260	9459.
193	9395. 9426. 13160.	261	3494. 6115. 7227. 9476.
194	6013.	262	15109.
195	4699. 5348. 7346. 11831. 11872. 15166.	263	6032.
196	1334. 4709*). 5329*). 9353. 11888. 15115.	264	9326. 9369. 17522.
197	6110. 7224.	265	11736. 11836. 11877. 20023.
198	7276. 17516. 18843.	266	13165. 13175.
199	13154.	267	14124.
200	17517.	268	4712. 4722. 5335. 6000. 7349. 9342. 15126. 15171. 17414. 17494. 22192.
201	2432. 6050. 6081. 7261. 13161. 17518. 18844.	269	2388. 6055. 14140. 22210.
202	2452. 6087. 7289. 9403.	270	2434. 6084. 7266. 9400. 18847. 22117.
203	5330. 9337.	271	17359 17396.
204	2384. 6030*). 9366.	272	1338. 6033. 9327. 9370. 14125. 17523.
205	3476. 4700. 5349. 11832. 11873. 15167. 22172.	273	11737. 11894. 19937. 20024. 22160.
206	2465. 6111. 7207. 7300.		

*) 4709, 5329 $\delta - 1'$; 6030 $AR - 1^m$; 5997 $AR - 5^s$; 1291 $\delta + 1'$.

№ des Catalogs.	
274	2423. 7244. 9407. 21340.
275	2455. 6091. 7294. 9429. 9460. 17397.
276	2468. 6116. 7306. 7822.
277	17415.
278	6034. 9328. 22211.
279	1331. 4749. 4753. 6017. 9358. 22193.
280	6035. 9371. 14126.
281	4702. 11837. 11878. 20025. 22176.
282	14141.
283	9430. 9454. 13166. 13176.
284	9477. 6092. 15110.
285	7307.
286	1295*). 4723. 5336. 6001. 9343. 11738. 11895. 15127. 17495. 22161.
287	9461. 18848.
288	2424. 6056. 7245. 9408. 21341. 22118. 22212.
289	1339*). 6018. 9359. 15119. 15172.
290	14127.
291	11896.
292	5353. 7350. 11838. 11879. 17416. 17496. 19938.
293	6036. 9329. 9372. 17524.
294	13167.
295	3479. 7351. 7365. 11839. 11880. 17417. 17497. 19939.
296	4713.
297	11739. 20026.
298	7352. 11840. 11881. 17418. 19940.
299	6093. 6117. 7328. 15111. 17398.
300	2469. 9478. 13158.
301	15128. 22177.
302	6037. 9373. 17525.
303	6019. 9360.
304	14128.
305	1350. 2425. 2435. 6057. 7246. 9409. 21342. 22119.
306	11740. 20027.
307	1296. 4724. 11897. 22162.
308	7279. 9462. 18849.
309	5354. 11898. 15129. 15173. 22163. 22178.
310	14143.
311	1297. 4714. 4725. 5337. 6002. 11899. 15130. 15174. 17498. 22164. 22179.
312	17526.
313	1298. 4715. 5338. 7353. 9344. 11900. 15131. 22165. 22180.
314	4739. 22194.
315	11841. 11882. 19941.
316	15120.
317	9431. 13168.
318	2430. 6058. 7247. 9410. 17527. 21343. 22120. 22213.
319	2389. 5370. 6038. 9374. 14129. 17431.
320	14144.
321	20028.
322	1340. 9361. 20671.
323	2426. 6059. 7248. 17528. 22214.
324	7280. 9463. 18850.
325	2470. 6118. 7324. 9479. 15112. 17399.
326	17360.
327	4750. 6020. 9330. 20672.
328	22166.
329	11741. 11883.
330	4740*). 9345. 11901. 17387. 17419. 20673. 22195.
331	14145.
332	2437. 6060. 7249*). 22121. 22215.
333	1861. 2427. 9411. 21344.
334	13169. 13177.
335	1332. 4751. 5360. 6021. 15175.
336	1299. 4716. 4726. 5355. 6003. 7354. 15121. 15132. 17499. 22181.
337	17400.
338	2471. 3496. 6094. 7293. 9482.
339	1300. 4717. 9362. 15122. 22167. 22180.
340	7250.
341	14130.
342	2438. 6061. 7251. 9509. 22122. 22216.
343	6004. 11902.
344	2456. 6095. 7294. 9433. 9464. 17529.
345	1341. 3480. 5356. 7355. 11742. 17500. 19942.
346	2428. 9412.
347	2472.
348	15113.
349	6119. 7228. 17401.
350	7325. 9480.
351	1333. 3485. 4741. 4752. 6005. 9346. 9363. 20029. 22168. 22196.
352	2390. 2457. 5371. 6039. 9375. 22217.
353	17432.
354	17388.
355	4754. 11743. 17501.
356	19943.
357	15114.
358	1342. 3481. 4755. 5357. 7356. 11744. 11884. 15176. 17502.
359	1352. 4727. 17420. 17503. 17530. 22183.
360	6096. 6120. 7229. 9465. 17361. 17402.
361	21345.
362	11903. 15123.
363	9364. 22197.
364	4742. 6006. 9348. 9365. 22198.
365	5361. 9376. 20674.
366	14146.
367	9434. 9531.
368	9466. 17403.
369	4728. 4756. 11745. 15177. 20030. 22184.
370	3497. 11904.
371	14131. 14147.
372	17433.
373	7308. 7326.
374	15178. 20031. 22185.
375	9510. 21346. 22218.
376	20675.
377	14148.
378	3274. 9511. 21347. 22219.
379	9435. 9532.
380	19944.
381	3275. 9413. 9512. 22220.
382	7309. 7327. 9481. 17404.
383	3498. 6062. 17531.
384	7310. 7328. 17405.
385	9500.
386	6121. 9482. 17406.
387	14132.
388	4757. 13188. 15179. 15186.
389	2458. 5372. 9377. 17434.
390	17504. 19945.
391	1343. 5358. 13189. 15133. 15180. 15187. 17421. 20033. 22186.
392	3499. 6063. 9414. 13178. 17352. 21348.
393	1353. 3486. 5362. 20676. 22199.
394	3500. 6064. 9415. 14150. 17533. 21349.
395	11905. 14151.
396	14133
397	2473. 9467. 9483.
398	21326.
399	22200.
400	4758. 13190. 19946.
401	22188.
402	9378.
403	9436. 9533.
404	7382. 15135. 15181. 17422. 17505.
405	1354. 3487. 4729. 4743. 7383. 15182. 15188. 17423. 17435. 17506. 20665. 20677. 22201.
406	22189.
407	4772. 6097.
408	1344. 4759. 5359. 13191. 19947.

*) 1295 $I+30'$, $\delta-1''.5$; 1339 $\delta+3'$; 4740 $\delta-1'$; 7249 $AR+2^m$.

№ des Catalogs.	
409	20035.
410	14152.
411	17389.
412	4760.
413	4730. 15136. 22202.
414	14134.
415	15183. 17507. 20037.
416	9484. 9501. 17362.
417	2474. 6122*). 9468. 9534. 17407.
418	2459. 3501. 6065. 9379. 11906. 13179. 14153. 17534. 20678. 22221.
419	4744. 5363. 15189. 17436. 20666. 22203.
420	3502. 5373. 6066. 9381. 11907. 14135. 14154. 17535. 20679. 22222.
421	2475. 6123. 17390.
422	4761.
423	3584. 7469. 8276. 9416. 21350.
424	22190.
425	3488. 4731. 5364. 15184. 15190. 17424. 17508. 20038.
426	4732. 15191. 17425. 17509.
427	4773. 6098. 9437. 21327.
428	5374. 14136.
429	22204.
430	1345. 13192. 19948.
431	20667.
432	4762. 15137.
433	1355. 7384. 17437.
434	17391.
435	6099. 9438.
436	17536.
437	9513*).
438	2460. 3489. 5375. 9381. 20680.
439	4733. 4745. 15192. 17426. 17510.
440	13193.
441	14137.
442	7311. 7329. 9502. 17408.
443	1356. 20668.
444	2476. 17392.
445	9485. 9503.
446	9486. 9504.
447	3585. 7470.
448	4763.
449	7312. 17409.
450	6100. 9417. 9439. 21328.
451	7366. 13194.
452	7330. 9487.
453	19949.
454	9469. 9535.
455	5376. 17511. 20681.
456	6124.
457	2461. 3490. 5377. 17512. 20682.
458	20669.
459	3503. 6067. 11908. 14138. 22223.
460	9440.
461	6101. 9441. 21329.
462	9488. 17363.
463	9470. 9536.
464	1346. 4764. 13195. 15193.
465	3613*). 8277. 17438.
466	3586. 7471.
467	14156.
468	9514.
469	4774. 6102. 9418. 21330.
470	7331.
471	9505.
472	2462. 5365. 17427.
473	15138.
474	20683.
475	17364.
476	6125. 9471. 17410.
477	6103. 8278. 9419. 9442. 17439. 21331.
478	14139.
479	7367*).
480	3587. 6068. 7472. 11909.
481	4734. 15194.
482	9443. 9537. 21332.
483	1357. 15185.
484	3504. 5378. 20684. 22224.
485	3505. 6069. 14157.
486	17365.
487	6104. 9538.
488	17411.
489	13196.
490	1347. 4765. 7368. 19950.
491	4735. 7385. 22205.
492	9515.
493	15195.
494	2463. 3491. 5366. 17428. 20685.
495	7473. 9420. 11910.
496	7386. 22206.
497	20670.
498	1348. 4766. 7369. 19951.
499	3506. 11910. 14158. 22225.
500	7332.
501	2464. 5379. 20686.
502	17429.
503	7333.
504	1358. 7370. 13197. 19952.
505	6126. 9444. 9472. 17412. 21333.
506	3598. 4775. 6105. 9539. 17440.
507	8279. 9421. 9516.
508	15139.
509	3573. 7334. 9506.
510	3599. 6106.
511	1349. 1359. 4767. 7371. 19953.
512	9446. 9540.
513	5367*). 14159.
514	6127.
515	5380*).
516	4787. 6107. 9447. 9541.
517	5368*). 7372*). 15197.
518	7474. 8304. 9422. 20687.
519	4788. 6108. 9448. 9542. 17441.
520	3574. 7335. 9507.
521	9508.
522	3507. 3637. 11912.
523	6129. 9473. 9603.
524	7387.
525	9647.
526	3600. 4776. 6109. 9517. 21335.
527	8305. 9634.
528	9543.
529	3588.
530	7388.
531	4789. 6149.
532	9557. 9604.
533	3638. 7475. 8306.
534	9648.
535	3614.
536	7476. 20688.
537	13199. 14160. 15198. 17442.
538	3575. 4768. 7432. 21314.
539	4777. 9518. 9544. 21336.
540	2477. 5369. 7373. 17443.
541	2478. 15199. 17444.
542	8307.
543	3589. 7433. 9649.
544	4778. 9519. 9545.
545	9558. 9605.
546	21315.
547	13200. 14160.
548	6150.

*) 6122 dupl.; 9513 $AR - 1^m$; 3613 $\delta + 1'$; 7367 $AR - 1^m$; 5367 $\delta + 10''$; 5380 $I + 1^0$, $\delta - 3''.2$; 5368, 7372 $AR + 20^s$.

№ des Catalogs.		№ des Catalogs.	
549	15200.	620	8527.
550	3601. 9650. 13180.	621	3661. 8523.
551	18851.	622	3545. 4771. 7440.
552	4779*). 9520. 9546. 21337.	623	2507. 7379. 13212. 17452.
553	17445. 19975.	624	5341. 9638.
554	3615. 3617. 8280. 8308.	625	14172.
555	3639. 11913.	626	13206. 14173.
556	8309.	627	3621. 7480. 8285. 8316. 11918.
557	3576. 21316.	628	3510. 15205.
558	14162.	629	2508. 17454.
559	6151.	630	3644.
560	3590. 7434. 9651.	631	7392. 15206.
561	7389.	632	7393. 15207. 18858.
562	13181.	633	7380. 13213. 17455.
563	3640. 7477.	634	3604. 9684.
564	5339. 9635.	635	9524. 9551.
565	3618. 9682.	636	11919.
566	6152.	637	6157.
567	7374. 14163. 15201. 17446. 19976	638	2484.
568	3659. 9521.	639	15142.
569	4780. 9547. 21338.	640	3580. 7441. 21320.
570	3641. 7478. 8310.	641	3593. 9685. 13186.
571	18852.	642	9525.
572	4790. 9559.	643	7394. 18859.
573	4769.	644	4784. 7553. 9552.
574	3602. 9652. 13182.	645	3622. 7481.
575	4792. 9606.	646	14174.
576	13201. 14164. 17447.	647	3511. 13207.
577	4793. 6153 9607.	648	9656.
578	3591. 7435.	649	5342. 9639.
579	3642. 7479. 8281. 8311. 11914.	650	9640.
580	2479*). 13202. 14165. 17448. 19977.	651	3546. 7442. 9657*).
581	8282. 8312. 11915.	652	4795. 6132. 9609.
582	7375. 15202.	653	8317.
583	3619. 9683.	654	3645. 7482. 7485. 8286*). 11920.
584	18853.	655	19982.
585	5340. 9636.	656	3662. 9526.
586	3577. 3592. 7436. 21317.	657	11921.
587	3616. 7437. 9653. 13183.	658	9553.
588	9522.	659	13208. 13214. 17456.
589	4781. 9548. 21339.	660	6158. 9561.
590	2480*) 17449. 19978.	661	3528. 15208. 21321.
591	13211*).	662	6133.
592	7390.	663	9527.
593	13203. 14166.	664	3529. 3547. 7395. 15209. 21322.
594	15140.	665	3594. 9658. 9686. 13187.
595	6154.	666	4785. 7554. 9554.
596	2481. 7376. 17450. 19979.	667	2486. 2510. 13215. 17457.
597	4791. 6130. 9608.	668	9641.
598	3578. 7438. 13184. 21318.	669	2487. 2511. 7381. 13209. 13216. 14175. 19983.
599	2482. 17451. 19980.	670	2512. 13210. 14176. 19984.
600	14167.	671	3623.
601	2505. 14168.	672	3663. 8287. 8318.
602	3603. 9654.	673	6134.
603	3508. 15203. 18855.	674	9528.
604	3660. 4782. 9549.	675	3512. 7396. 15143. 21323.
605	3620. 8314.	676	6135. 6159.
606	4783.	677	3646. 7483.
607	6131. 9560.	678	6160. 9610.
608	4794. 6155. 9637.	679	5343.
609	3544. 4770. 7439.	680	3513. 15210. 21324.
610	8284. 11917.	681	9642.
611	7377. 13204. 14169.	682	3664. 9529. 9555.
612	7378. 13205. 14170.	683	3514. 3530. 7397.
613	18856.	684	3548. 7443.
614	3643. 8315.	685	4796. 6136.
615	2483. 2506. 14171. 19981.	686	3624. 7414.
616	6156*).	687	3647.
617	13185.	688	8288. 8319.
618	3579. 9655. 21319.	689	6161.
619	3509. 7391. 15141. 15204. 18857.	690	2513. 7398.

*) 4779 $\delta - 10''$; 2479 $AR + 1^m$; 2480 $\delta - 1'$; 13211 $AR + 1^m$; 6156 $AR - 10^s$; 9657 Dupl. sq.; 8286 $AR - 20^s$

№ des Catalogs.		№ des Catalogs.	
691	3595. 6279. 9700.	762	3630. 16188.
692	5344.	763	6215. 16148. 18884. 20011.
693	3665. 7486. 9530.	764	20690.
694	6208. 21325.	765	4800. 7519.
695	4786. 9556.	766	6166.
696	3581. 6246.	767	7419.
697	7415. 7484. 8320.	768	6167. 8442.
698	3515. 6209.	769	3519. 6198*). 13223.
699	6137.	770	7493.
700	8289.	771	6252.
701	3625. 6312. 9701.	772	3671.
702	6210.	773	3672. 6348*).
703	7399.	774	9690.
704	3582. 6247. 7444.	775	7405. 17473.
705	2489.	776	3681. 6285. 9663.
706	6280.	777	6286. 7447.
707	3531. 18880.	778	3653. 11972.
708	9644.	779	20012.
709	7445.	780	3520. 3536. 6216. 9579. 16149. 18885.
710	6138.	781	9618.
711	3532. 6211. 16144.	782	6316. 16189.
712	9612*). 15144.	783	3654. 6349. 7494.
713	13217. 14177.	784	3673. 7420. 11973.
714	3648. 7416. 9702.	785	6253.
715	9613.	786	6287. 6317.
716	3605. 3626. 6281.	787	7406. 13224.
717	7400. 20007.	788	3553. 9664. 17474.
718	6162. 7575.	789	6168. 7578. 8443.
719	3516. 7401. 20008.	790	18886.
720	3627. 6282.	791	6199.
721	6139.	792	6141. 7557. 8407.
722	6163. 7576.	793	4801. 7520. 8484.
723	3649. 9687.	794	6254.
724	3666. 7487.	795	6288. 6318. 16190.
725	3533. 6212. 16145.	796	7579. 8444.
726	3517. 7402. 13219. 14178. 18881.	797	14182.
727	3667. 7488.	798	6351. 7421. 7448.
728	3549. 3583. 6248. 9659. 16186.	799	3554. 9619. 9665.
729	3628. 6313.	800	6142. 8408.
730	3596. 3606. 6283.	801	6319.
731	15145.	802	7558.
732	3650. 9688.	803	9620. 16150.
733	4797. 7517. 7555.	804	15147.
734	4798. 7556.	805	6255.
735	3597*). 3607.	806	2514. 6217. 9580. 20013.
736	3534. 6213. 9576. 9614. 20009.	807	8445. 9645.
737	7489.	808	3632. 6320. 16191.
738	7417.	809	20691.
739	6284.	810	6289.
740	7403. 13220.	811	2515. 3521. 6218. 9581. 17475. 20014.
741	6140. 7577.	812	14183.
742	3668.	813	3655. 6352. 7422.
743	6164. 20689.	814	18887.
744	3550. 6249. 9660. 16166. 17470.	815	3707. 7521. 8485.
745	3551. 6250. 7446. 9661. 17471.	816	7559.
746	14179.	817	20692.
747	6346.	818	3674. 7495.
748	3535. 6214. 9577. 9615. 16146. 18882.	819	6219.
749	4799. 6347. 7518.	820	3608. 6290. 6321. 16192.
750	3629. 6314. 16187.	821	6143. 6169. 7580. 8409. 8446. 9646.
751	3651. 9689.	822	6220. 9582. 18860. 18888.
752	9578. 9616. 16147. 18883.	823	9562. 12001.
753	3518. 6197. 9617. 20010.	824	3609. 6222.
754	6165.	825	9621. 15148. 16151. 17476. 20015.
755	3669. 7491.	826	3555. 6256. 9666. 16168.
756	3670. 7418. 7492.	827	3633. 6291.
757	6175. 13222. 14181.	828	3708. 7496. 7522. 7560. 8486.
758	3652. 11971.	829	3522. 3537. 6221. 18889.
759	6315.	830	3556. 6257. 9667. 16169.
760	3552. 6251. 9662. 16167. 17472.	831	9563.
761	6176. 7404.	832	6170. 8410. 8447.

*) 9612 $AR + 10^s$; 3597 $AR - 1^m$; 6198 $\delta + 1'$; 6848 $\delta - 3'$.

№ des Catalogs.	
833	3709. 7561. 8487.
834	6222. 9583. 18861.
835	3610. 6292.
836	6171. 8411.
837	6177. 6200. 13225. 18911.
838	14184.
839	6178. 6201. 7407. 13226. 18912.
840	7581. 8448.
841	3557. 6158. 16152.
842	6179. 6202. 13227. 18913.
843	3680. 3710. 7528. 8488.
844	15149.
845	3538. 17477.
846	6144. 8291.
847	6172. 8412.
848	14185. 14190.
849	6293.
850	7497.
851	3675. 16193.
852	3676. 16194.
853	7423. 9692. 11929.
854	6173. 8449.
855	15150.
856	6174. 7582.
857	16170.
858	7524. 8489.
859	3711 7562.
860	9693.
861	9564. 12018.
862	6145. 7563. 8292.
863	2517. 6203.
864	12002.
865	3611. 6294.
866	3656. 6353. 9805.
867	6354. 7424. 9694.
868	8413.
869	3523. 6204. 13228. 18890.
870	7425. 9695. 11930.
871	3634. 6323.
872	15151.
873	3657. 6355. 9806.
874	3677. 7498. 16195.
875	6223. 9584. 9623. 18862.
876	6180. 7408. 14191. 18911.
877	7583.
878	6146. 8293. 8414.
879	3524. 6181. 6205. 7409. 13229. 18891. 19985.
880	3681*). 8491.
881	14186.
882	3678. 9565. 12003.
883	12019.
884	6224. 9624.
885	20693.
886	3558. 17478. 20017.
887	3712. 7525. 12020.
888	17458.
889	3635. 6324.
890	7564. 8493.
891	2518. 3559. 9585.
892	14187.
893	3539*). 6225. 16171.
894	3679. 7499. 9566. 11974.
895	6325.
896	6259.
897	9586. 15152. 17479. 20018.
898	6260. 9668. 9725. 9762.
899	18863. 18892.
900	3713.
901	2519. 3561. 16153.
902	3612. 6295.
903	9669. 9726.
904	17459. 19986.
905	7584. 8450. 20694.
906	9670. 9764.
907	9671. 9727. 9765. 9807.
908	6356. 9696.
909	7426. 11931. 11949. 12072.
910	7500. 9567. 12004.
911	6261. 9672. 9712. 9728. 9766.
912	3525. 6182. 7410. 14188. 14192.
913	9673. 9729. 9808.
914	20019.
915	6147. 8415.
916	18864. 18893.
917	8339. 13230. 14193.
918	6296.
919	8540. 9587.
920	2520. 9625.
921	3562.
922	6357. 9697.
923	3541. 6226. 9588. 18865. 18894.
924	7585*). 16235.
925	6183. 6206. 7411.
926	16196.
927	3714. 7526. 8494. 12021. 16197.
928	8321. 17460. 19987.
929	3636. 16154. 17658. 18915.
930	8451.
931	8416.
932	7501. 9568. 12005.
933	13231. 17461. 19988. 20039.
934	3526. 6207. 8340.
935	3682. 7565. 16172.
936	2521. 6227. 17480.
937	6262.
938	9589. 9626.
939	7427. 11932. 11950. 12073.
940	3715. 6376. 7566. 12022. 12221. 16173.
941	17659.
942	3542. 9627.
943	18866. 18895.
944	12141.
945	3658. 6326. 6358. 7428. 9698. 11988. 11951. 12074.
946	6263. 9674.
947	7586. 16236. 20695.
948	9809.
949	11922. 11975.
950	7567. 8452.
951	3563.
952	18867. 18896.
953	6327. 7429. 9713. 9810. 11952. 11979. 12075.
954	17562. 17660.
955	20040.
956	11923.
957	12006. 12023. 12143. 16155.
958	8417. 8453.
959	3683. 8294. 8322. 13255. 14195. 17462. 19989.
960	17481.
961	17628.
962	7587. 8418. 8454. 16237. 20696.
963	14189.
964	17597.
965	9730. 9767. 17598.
966	2522. 8495. 18868. 18897.
967	6377. 12024. 12144. 16174.
968	9699*).
969	6148.
970	8514. 9628.
971	9836. 11934. 11953.
972	7502. 7527. 17661.
973	19954.
974	6297. 9781. 9768. 18916.

*) 3681 *AR*+1ᵐ; 3539 δ+10″; 7585 δ−1′; 9699 *AR*−10ˢ.

№ des Catalogs.	
975	7412. 20041.
976	6328. 9811. 11935. 11954.
977	7588. 8419. 16238.
978	6359. 9569. 11924. 11976.
979	6378. 6413. 12222. 16156. 16175.
980	6228. 17563.
981	17629. 17662.
982	7528. 11977. 11980. 16198.
983	9570. 11978. 11981.
984	6379. 6414. 12223. 16157. 16176.
985	9837. 12076. 12103.
986	3543. 8515. 9590. 15211.
987	18869.
988	6380. 6415. 12025. 12224. 16158. 16177.
989	3684. 3716. 8295. 8323. 8341. 8455. 13232. 13256. 14196. 17463. 19990.
990	12077. 12104.
991	3564. 8516. 9591. 9627. 15212.
992	19955.
993	3565. 8517. 15213.
994	20042.
995	6265. 9714. 9769. 17599.
996	7589. 16240.
997	6381. 6416. 12026.
998	16241. 20697.
999	2523. 8496. 17482. 18870. 18898.
1000	12145. 12182. 12265. 17630. 17663.
1001	2528. 8518.
1002	2524. 3717. 8497. 17483. 18871. 18899.
1003	7413.
1004	3685. 8296. 13233. 14197. 15260. 17464. 19956. 19991.
1005	6360. 9571. 11925.
1006	8456. 20043.
1007	12183. 12266.
1008	7430.
1009	6431.
1010	6417. 12027. 12225.
1011	12146. 12267. 16159. 16199.
1012	7590. 8420.
1013	6266.
1014	12147. 12184. 12268.
1015	6298. 9732*). 12078.
1016	7538. 7568.
1017	3718. 8342. 20045.
1018	9733. 9770. 12079. 17565. 17600.
1019	11955. 12105*).
1020	6299. 9771. 17601. 17566. 18917.
1021	8324.
1022	8457. 17465. 19957.
1023	6361. 9572. 11936. 11982. 17631.
1024	7591.
1025	8325. 14198.
1026	18872. 18900.
1027	19992.
1028	6184. 6229. 8562. 9676. 15214.
1029	6267. 9715. 9838.
1030	9592.
1031	6300. 9813.
1032	7503. 11983. 16200. 16209.
1033	9593. 9630.
1034	2529.
1035	6362. 7504. 9573. 11984. 16201. 16210.
1036	12007. 12148. 16160. 16178. 16242. 17664.
1037	13234.
1038	6185. 6230. 8563. 9677. 15215.
1039	17484.
1040	12028.
1041	17632.
1042	17466. 17485. 18901.
1043	9631.
1044	6418. 12028. 12226. 12269.
1045	6432.
1046	2525*). 17467. 17486. 18902. 19958. 20046.
1047	18873.
1048	6329. 9734. 9772. 17537. 17567.
1049	6433. 12240.
1050	7431. 9716. 9839.
1051	13235. 19993.
1052	9703.
1053	12185.
1054	6490. 7540.
1055	14200. 19994.
1056	3566. 8564.
1057	7592. 8421.
1058	9773.
1059	7541. 20698.
1060	6301. 6330.
1061	12080. 12107. 17602.
1062	11957. 12081. 12108. 17603. 17665.
1063	3686. 15261.
1064	8498.
1065	11937.
1066	6269. 9869. 11958. 12082. 12109. 17604. 17666.
1067	7569.
1068	6363. 7505. 11985.
1069	6270. 9840. 11959. 12083. 12110. 17605. 17667.
1070	6302. 6331. 9735. 18918.
1071	6186. 8565. 9632.
1072	6231.
1073	12186. 16179. 16202. 16211. 16243.
1074	8326. 13236. 15216. 15232. 17468. 19995.
1075	9633.
1076	7593. 8422.
1077	2530. 8519.
1078	2526. 3719. 8388. 8458. 8499. 17487. 18903. 19959. 20047.
1079	9717. 9897. 9931.
1080	15217.
1081	12149. 12187.
1082	12150.
1083	6232. 9678.
1084	6303. 6332. 9815. 17538. 17569.
1085	7529. 16180. 16203. 16212. 16244.
1086	9704.
1087	12241. 12270.
1088	7450.
1089	6419.
1090	16204. 16213. 16245.
1091	6304. 9736. 17570.
1092	12029. 12242. 12271.
1093	2527. 3720. 8384. 8459. 8500. 17488. 19960. 20048.
1094	3687. 15233. 15262.
1095	11960. 12084.
1096	6382. 12008. 12188. 16161.
1097	6273. 9774. 9871. 17539. 17571. 18919.
1098	9718. 9841. 9898. 9932. 9955.
1099	3688. 8297. 15234. 15263.
1100	11927. 11987. 17633.
1101	6305. 9737. 9816. 17540. 17572. 18920.
1102	3567. 8566. 9594.
1103	7506.
1104	11989.
1105	9719. 9842. 9933.
1106	8567. 9595.
1107	9720. 9843. 9899. 9934. 9956*).
1108	3721. 8385. 8460. 8501. 17489. 19961. 20049.
1109	15235. 15264.
1110	6434. 7542.
1111	6306. 9738. 9817. 9872. 17541. 18921.
1112	15218.
1113	7531. 12189.

*) 9732 *AR* — 1^s ; 12105 $\delta + 2'$; 2525 $\delta + 4'$; 9956 $\delta + 2'$?.

№ des Catalogs.	
1114	8327. 13237. 14201. 17469.
1115	12151. 12190.
1116	7594. 8423.
1117	14202.
1118	12228.
1119	8461. 8502.
1120	6333. 11938. 11961. 12111.
1121	6334. 11939. 11962. 12112.
1122	7570. 20699.
1123	9705.
1124	6234. 8568.
1125	12032.
1126	8520. 18904.
1127	6491. 7543.
1128	3689. 8328. 19962. 19996.
1129	7451. 7595. 8424.
1130	7507. 9900.
1131	12009. 12152. 16162. 16205.
1132	8462. 8503. 8522. 18874. 20050.
1133	9818. 12085. 17607.
1134	6187. 6235. 8569. 9679. 17490.
1135	9844.
1136	3690. 8329. 13257. 15265. 19997.
1137	9597.
1138	6435. 7571.
1139	3722. 8386.
1140	6274. 9739. 17573. 17669.
1141	3691. 8330. 13258. 15236*). 15266. 19998.
1142	9706.
1143	8463. 8504. 8523.
1144	6236. 9680.
1145	12113.
1146	7596. 8425. 20700.
1147	14204. 14211.
1148	6496. 7572. 16247.
1149	8464. 8505. 8524.
1150	6307*). 9721. 9819. 12087. 17574. 17608. 18922.
1151	8387. 20051.
1152	6437. 6492. 7544.
1153	12153. 12191.
1154	6335. 11940. 11963.
1155	12114.
1156	6238.
1157	18905.
1158	6275. 6308. 17609. 17670.
1159	7545.
1160	6364. 6383. 7508. 9574. 16163.
1161	6309. 9722. 9820. 12088.
1162	6493. 7546. 7578. 7597. 8426. 16248. 20701.
1163	18875.
1164	9740. 9775. 17542.
1165	15237.
1166	9741. 9776. 12089. 17543.
1167	6336. 9845. 9873. 11990.
1168	3756. 6188. 8577.
1169	12192. 16215.
1170	3757. 6189. 17671.
1171	12154. 12193.
1172	9874. 11964. 11991.
1173	7452. 7598. 8427.
1174	8571. 9699.
1175	9846. 9901. 11928.
1176	6384. 7509. 9575. 12010. 12229.
1177	6365. 11941.
1178	3723. 8388. 14205. 19999. 20052.
1179	7574. 12244. 12274.
1180	12115.
1181	6494. 7547.
1182	3758. 6190. 8578. 9707. 17672.
1183	3692. 14212. 15222. 15238.
1184	6421. 6439. 12156. 12194. 16206. 16816.
1185	6422. 6440. 12157. 12195. 16207.
1186	3693.
1187	14213. 15223. 15239.
1188	6366.
1189	16164. 16181.
1190	6276. 6310. 9777. 12090. 17544. 17575. 17610.
1191	7532. 12011. 12230.
1192	15267.
1193	2531. 8525.
1194	12116.
1195	11992.
1196	8465. 8506.
1197	16249.
1198	3724. 8389. 13238. 19963. 20000. 20053.
1199	3694.
1200	8526.
1201	8507. 18876. 18907.
1202	8572.
1203	6337. 9847. 9875. 9935. 11942. 17635.
1204	6441. 7548. 12231. 12245. 16165. 16182. 16217.
1205	6385. 7510. 12012. 12158.
1206	12275.
1207	15224.
1208	12118.
1209	11993.
1210	11965.
1211	2532. 8527*).
1212	3759. 6191. 9708. 17673.
1213	3568. 8573.
1214	3695. 8298. 8331. 14214. 15240.
1215	15268. 20001.
1216	3760. 6192. 8580. 17674.
1217	14206.
1218	9778. 9821. 9902. 17576.
1219	6277. 6311. 6367. 12091. 17612.
1220	9723. 9779. 9822. 9903. 17546. 17577.
1221	18877. 18908.
1222	8466. 15269. 20002.
1223	18878. 18909.
1224	6239.
1225	15225.
1226	3725. 8390. 19964. 20054.
1227	7533. 12232. 16250.
1228	3696.
1229	6423. 12233. 16218. 16251.
1230	1360.
1231	6442. 7549. 12246. 12276.
1232	6386. 7511. 12013. 12159. 12196.
1233	8299. 8332. 14215. 15226. 15241.
1234	6368. 9780. 12090.
1235	12119.
1236	8333. 8467. 14216. 15227. 15242.
1237	11994.
1238	18879.
1239	8508. 13239. 15270.
1240	17676.
1241	3726. 8509. 13240. 14207. 15271. 19965.
1242	9876. 9904. 9936. 12120. 17636.
1243	6443. 6470. 12247.
1244	6338. 9848. 9877. 9905. 9937. 12121. 17613. 17637. 20702.
1245	2533. 8528.
1246	6339. 9849. 9878. 9906. 12122. 16183. 17614. 17638.
1247	8428.
1248	6194. 9709.
1249	8574.
1250	15228. 20003. 20055.
1251	8334. 8468. 14217.
1252	3697.
1253	3727. 8391. 8510. 15229. 15272. 19966. 20004. 20056.
1254	6240. 8581.

15236 δ+10″; 6307 δ+10″; 8527 *AR*+1ᵐ.

№ des Catalogs.	
1255	11943. 17578.
1256	6340. 6369. 9724. 9938. 9957. 11044. 16208. 17579. 20703.
1257	7453. 7599.
1258	3728. 8392. 8511. 13241. 15230. 15248. 15273. 19967. 20005. 20057.
1259	3729. 8393. 8512. 13242. 15244. 15274. 19968.
1260	17677.
1261	6370. 9907.
1262	8575. 9601.
1263	6444. 6471. 12248. 12277.
1264	18910.
1265	12034. 12060. 12197. 12234.
1266	6495. 7550. 16219. 16252.
1267	16253.
1268	12035. 12161. 12198. 12235.
1269	3698.
1270	17580.
1271	6341. 6371. 7512. 7584. 9850. 9939. 11966. 11995. 16184. 17547.
1272	1361.
1273	12093. 12123.
1274	6372. 7513. 7535. 11996. 16185. 17548.
1275	20006.
1276	6424. 12200. 12249.
1277	9879. 9908. 11945. 17615.
1278	6278. 9823. 12094. 12124.
1279	6445. 6472. 12278.
1280	6387. 12014.
1281	7454. 7600. 8429.
1282	3762. 6195. 6242. 8582.
1283	2534*). 8529.
1284	12250.
1285	3699. 3780. 8300. 8335. 15245.
1286	3795. 9710.
1287	6342. 6373. 7514. 9851. 9940. 11967. 16220. 17678.
1288	8576. 9602.
1289	12279.
1290	3700. 3731. 8301. 8336. 13244. 14218. 15246. 15276.
1291	6374. 9941. 11946. 16221. 17680.
1292	6446. 6476.
1293	19969.
1294	6843. 6375. 7515. 7536. 9942. 11947. 16222. 16255. 17681.
1295	3701. 3732. 8302. 8337. 13245. 14219. 15247. 15277.
1296	6496. 7551.
1297	6344. 7516. 7537. 9852. 9943. 11948. 11997. 16223. 16256. 17682.
1298	8530.
1299	6388. 12162. 12201.
1300	12280.
1301	6447. 6474.
1302	6389. 6425. 12163. 12202.
1303	12125.
1304	15231.
1305	3702. 8338. 13247. 14220.
1306	6475. 7552.
1307	7455. 7601. 8430.
1308	2535. 8531.
1309	6345. 9853. 11968. 12036. 17616.
1310	11969. 12015. 12037. 12095.
1311	7602. 8431.
1312	9824. 9909.
1313	6448. 12251. 12281.
1314	11998. 12096. 12126.
1315	3796. 6243. *AR*±0s.5?
1316	3763. 6196.
1317	1362. 8469. 14208. 19970.
1318	9711.
1319	7456. 8433.
1320	9825. 11999. 12016. 12038. 12097. 12127.

№ des Catalogs.	
1321	9826. 11970. 12017. 12039. 12128.
1322	3733.
1323	9880. 9910. 9944.
1324	3764. 3798. 6245.
1325	12000.
1326	9854. 9881. 9911. 9958.
1327	9882. 9959 17549.
1328	15248.
1329	3703*). 15278.
1330	12237. 12282. 18943.
1331	2536.
1332	6390.
1333	9855. 9912. 17617.
1334	9913. 9945. 17618.
1335	12203.
1336	12098.
1337	12165. 12204.
1338	19971.
1339	12283. 18944.
1340	9781.
1341	6449.
1342	1380.
1343	9856. 9914. 17619.
1344	12238. 12252.
1345	15310.
1346	6391. 12040. 12129. 17683.
1347	6392. 12041. 12130. 17684.
1348	14209. 15311.
1349	3799. 3816. 9782. 9960. 17550.
1350	6426. 12166. 12205.
1351	1363. 14210. 15294. 19972.
1352	3765.
1353	9827. 12099.
1354	2537. 21413.
1355	3704. 15249. 15279.
1356	17696.
1357	3705. 15250. 15280.
1358	6528. 7457.
1359	6427. 12167. 12206.
1360	12168. 12207.
1361	13249.
1362	12284. 18945.
1363	12253.
1364	9857. 9915. 17620. 17689.
1365	9783. 9961.
1366	12239. 12286.
1367	6393*). 9828. 12042. 17685. 17697.
1368	6428. 6450.
1369	19973.
1370	9858. 9883.
1371	3706*).
1372	6394*). 9829. 12043. 17686. 17698.
1373	12131.
1374	1384.
1375	9946.
1376	12208.
1377	6429. 12169.
1378	1381.
1379	15251.
1380	2538. 21414.
1381	12254.
1382	3817. 3855. 9859. 9916. 17621. 17640.
1383	3818. 9860. 9917. 17622. 17641.
1384	15282.
1385	1399. 15295.
1386	3800.
1387	9854. 9962.
1388	8610.
1389	12287.
1390	2539. 3767. 21415.
1391	9742. 17551.

*) 2534 $\delta - 1'$; 3703 $AR - 10^s$; 6393 $AR + 1^m$; 3706 $\delta - 1'$; 6394 $AR + 1^m$.

№ des Catalogs.		№ des Catalogs.	
1392	15252.	1463	3770.
1393	15314.	1464	6455. 12214. 18950.
1394	3801. 3856. 9743. 17552.	1465	9949. 12102. 17702. 20704.
1395	3802.	1466	15286.
1396	3819. 9744. 17553. 17623.	1467	6533.
1397	9785.	1468	12290.
1398	1397.	1469	13251. 15253.
1399	9861. 9918. 17687.	1470	2542. 8586. 21417.
1400	19974.	1471	13252. 15298.
1401	15283.	1472	7652. 21354.
1402	12209.	1473	6516.
1403	8533. 8583.	1474	12136.
1404	13250. 15284.	1475	9888. 9922. 17644.
1405	1385. 7649. 8394. 21351.	1476	8356. 14221.
1406	12313.	1477	12174. 12215.
1407	9963.	1478	12050. 17693.
1408	9947. 17699.	1479	7463*).
1409	9993. 17642.	1480	3820. 9747.
1410	9919. 17689.	1481	15316.
1411	6513. 7458.	1482	3821. 8661. 9748.
1412	9885.	1483	6400. 9950. 17703.
1413	12255.	1484	16226.
1414	8611.	1485	21371.
1415	6514. 6530.	1486	7653. 17731.
1416	6396. 12045. 12171. 12210. 18946.	1487	6499. 12259. 12291.
1417	12046. 12172. 12211. 18947.	1488	7628.
1418	6451.	1489	12175. 12216.
1419	21368.	1490	9889. 17583. 17626.
1420	2540. 3768. 8584. 21416.	1491	1400. 7682. 8536. 21372.
1421	12047. 12173. 12212.	1492	9951. 12051. 12137. 20705.
1422	1382. 1398. 15297.	1493	3822. 9833. 9964.
1423	6497. 12256.	1494	9890. 9923. 17584. 17627. 17645.
1424	3857. 9862. 17554.	1495	21419.
1425	17700.	1496	12292. 12316.
1426	8612.	1497	2543. 8587.
1427	12100.	1498	8662. 9788.
1428	12288. 12295. 12314.	1499	12176. 12217.
1429	6397.	1500	17694.
1430	1386. 21352.	1501	8395. 21355.
1431	7650.	1502	13253. 15254. 15317.
1432	6452.	1503	6456. 12177. 18951.
1433	7460.	1504	14222.
1434	6532. 7461.	1505	3771. 8614. 8663. 20086.
1435	6430. 6453.	1506	6517. 6534. 7464.
1436	12257.	1507	6478. 12298.
1437	6399. 12048. 12134. 17691. 17701.	1508	15299.
1438	3769. 8613. 20085.	1509	6479. 12299.
1439	21369.	1510	9865. 9924.
1440	15285.	1511	12052. 12138. 17704.
1441	6515.	1512	7683. 8537. 21393.
1442	15315.	1513	6480. 12300. 12317.
1443	6498. 12258.	1514	3772. 3805. 8615. 8664. 9749. 20087.
1444	6476. 16224.	1515	6500.
1445	9863. 9886. 9921. 17643.	1516	16227.
1446	9948. 12101.	1517	7654. 17732.
1447	8659. 9745. 9786.	1518	3806. 17804.
1448	7651. 8355. 17803. 21353.	1519	21373.
1449	1383. 1399. 7680. 8535. 21392.	1520	3734*). 9866. 9891. 9925. 17646.
1450	3858. 9831. 17555.	1521	12139.
1451	2541. 8585.	1522	6457. 12178.
1452	6477. 12289. 12297. 12315. 16225.	1523	3823. 9834.
1453	8660. 9746. 9787.	1524	6518.
1454	9864. 9887. 9994. 17581. 17624.	1525	7629. 14223.
1455	21370.	1526	9965. 17585.
1456	3859. 9832. 17582. 17625.	1527	12293. 12318.
1457	3803.	1528	3825. 9790. 9835.
1458	1387. 7627.	1529	7684. 21356. 21394.
1459	7462.	1530	17695.
1460	18948.	1531	6458. 12179. 12219. 18952.
1461	12049. 12135. 17692.	1532	15300.
1462	6454. 12213. 18949.	1533	15319.

*) 7463 $\delta + 10''$; 3784 $\delta - 1'$.

№ des Catalogs.	
1534	12294. 12301.
1535	7465.
1536	6519.
1537	6535.
1538	12180.
1539	3887. 6401. 17705.
1540	12140.
1541	12260.
1542	17734.
1543	6481*). 6501. 12319. 16228.
1544	7656.
1545	17647.
1546	1364. 7630.
1547	6459. 12181. 12220.
1548	3773. 8665. 9750. 9791. 17805.
1549	20706.
1550	15301.
1551	3860. 9867. 9892. 9926. 9952. 9966. 17586.
1552	3826. 9792.
1553	9995.
1554	2544. 8538. 8588. 20064.
1555	9927.
1556	8616. 20088.
1557	9893. 9868. 9953. 9967. 17587. 17648.
1558	1388. 8357. 14224. 15302. 15320.
1559	17735.
1560	12261.
1561	6520.
1562	6482. 6502. 16229.
1563	1389. 14225. 15303. 15321.
1564	21420.
1565	6402. 17706.
1566	1401. 7685. 8470. 21395.
1567	12320.
1568	3774. 8666. 9751. 9793.
1569	3735. 8617. 21421.
1570	3775. 9752. 9794.
1571	7657. 8396. 21357. 21374.
1572	2545. 8539. 8589. 20066.
1573	21375. 21396.
1574	17736.
1575	1365. 1890. 7631. 20058.
1576	6536. 7466.
1577	8358.
1578	6403.
1579	14226.
1580	10102. 17707.
1581	6504.
1582	20707.
1583	21376. 21397.
1584	3888.
1585	6460.
1586	12322.
1587	17588.
1588	7686. 8397. 21377. 21398.
1589	3861. 9996. 17589. 17649.
1590	17806.
1591	9795.
1592	9753.
1593	7658. 17737.
1594	7467. 8434.
1595	8590. 20067.
1596	7659. 17738.
1597	6462.
1598	6484.
1599	9997. 17650.
1600	14227.
1601	7660. 8359. 8398.
1602	8540. 8618. 21422.
1603	1366. 7632. 20059.
1604	12324.
1605	3862.
1606	8667.
1607	1402. 7687. 8471.
1608	7688. 8472.
1609	14241.
1610	1891. 7604. 14228. 15322.
1611	8619.
1612	8541*). 8591. 20068. 21423.
1613	2546. 3776. 8542. 8592. 8620. 20069.
1614	15256. 15288.
1615	6404. 10103. 17708.
1616	3889.
1617	14242. 20060.
1618	17807.
1619	8668. 9754.
1620	6463.
1621	6406. 17710.
1622	6505. 16231.
1623	20708.
1624	3827*). 3863*). 9796. 9968. 9998. 17556. 17590. 17651.
1625	8360. 8399. 17739.
1626	3828*). 3864*). 9797. 9969. 9999. 17557. 17591. 17652.
1627	6485. 16232.
1628	8435.
1629	3829*). 3865*). 9798. 9970. 10000. 17558. 17592. 17653.
1630	3736.
1631	7689. 8473.
1632	17809.
1633	3890.
1634	8669. 9755.
1635	15257.
1636	1392. 7605. 7634. 15323. 20061.
1637	7662. 8400.
1638	3891. 6407. 17711.
1639	6464.
1640	1403. 7663. 17740.
1641	6486. 12327.
1642	7690. 8474.
1643	3777. 8621. 15352.
1644	14229. 15289.
1645	15290.
1646	1404.
1647	8670. 9756.
1648	12366.
1649	20709.
1650	6521. 7468. 8436. 16233.
1651	3924. 6408. 6465. 10104.
1652	1418. 3737. 15353. 17810.
1653	2548. 8544. 20070.
1654	10139.
1655	8593.
1656	7691.
1657	9799. 9971. 10001. 17593. 17654.
1658	6537. 8437.
1659	6507.
1660	3807. 8671. 9757.
1661	8475.
1662	1419. 3738. 3778. 8622. 15354.
1663	6508. 6522.
1664	7664. 8361. 8401. 14243. 17741.
1665	17712.
1666	3808. 8672. 9758.
1667	1367. 7635. 20062.
1668	6509. 6523. 6538. 8439. 16234.
1669	14230.
1670	9972. 10002. 17655.
1671	3892. 3925. 17560. 17713. 20710.
1672	15258.
1673	7692. 8476.
1674	7665. 8402. 17742.
1675	3893. 17561. 17714. 20711.

*) 6481 $\delta + 1'$; 8541; 3827, 3863; 3828, 3864; 3829, 3865 $AR + 1^m$.

№ des Catalogs.	
1676	3834.
1677	7606.
1678	20071.
1679	3835. 9800. 17594.
1680	6466.
1681	15291. 15304. 15324.
1682	3836. 9973. 17595. 17656. 17811.
1683	3837. 3868. 17596. 17657. 17812.
1684	1405. 7666. 8403. 14244.
1685	7693. 8477.
1686	3779. 8623.
1687	12328.
1688	8545. 8594.
1689	2549. 7607. 14231. 20068.
1690	1393.
1691	3894. 10058.
1692	14245.
1693	6409. 6467.
1694	9801. 9974.
1695	3809. 8673. 9759. 17743.
1696	10003.
1697	20072.
1698	8404.
1699	8479.
1700	1420. 2601. 3741. 8624.
1701	7667.
1702	3869. 9894. 9928.
1703	7695. 7739. 8546.
1704	12263.
1705	8440.
1706	6524.
1707	6487.
1708	6468. 10140. 10184. 18953.
1709	6410.
1710	15259. 15292.
1711	6411. 10105*).
1712	3810. 8674. 9760. 9802.
1713	12332.
1714	1394. 7608. 15305. 15355.
1715	6510. 12367.
1716	3838. 9803. 17715.
1717	9975. 10004.
1718	1368. 7636. 14232. 14261.
1719	3839. 9804. 17716.
1720	6488. 6511. 12333. 12368.
1721	3742. 3780*) 8625.
1722	1406. 7668. 7773. 14246.
1723	9976. 10005.
1724	2579.
1725	17744.
1726	9895. 9929.
1727	6525. 8441.
1728	10059. 10106.
1729	15325.
1730	2602. 8675. 9761. 17745. 20073.
1731	6412. 10060.
1732	7740.
1733	12264.
1734	7741. 7774.
1735	3895. 9954. 20712.
1736	2550. 7637. 14233. 14262.
1737	7638. 14234. 14263.
1738	2561. 7669. 7742. 7775. 8405. 14247.
1739	12396.
1740	7696.
1741	6526. 6539.
1742	15356.
1743	20103.
1744	15293. 15306.
1745	7716. 14264.
1746	6469.
1747	12334.
1748	6489. 6512. 12369.
1749	3870. 3926. 9896. 9930. 10021. 20714.
1750	2580.
1751	8480. 8547. 8595. 17813. 20074.
1752	1395. 15326.
1753	3743.
1754	2562. 7670. 8362.
1755	18966.
1756	10107.
1757	6527.
1758	12370. 12397. 18993.
1759	1369.
1760	20075.
1761	1407. 1421. 7717. 15307. 15357. 16257.
1762	7743*).
1763	7610.
1764	15327. 15339.
1765	3840. 9977. 10006. 17717.
1766	8548. 8596. 17814. 20076.
1767	12337.
1768	8626.
1769	2563.
1770	10141. 18954.
1771	2603. 3781.
1772	14235. 14248.
1773	15328.
1774	7744. 7776. 20105.
1775	8481. 8549. 17815. 20077.
1776	10142. 18955.
1777	10214. 12371. 12398. 18995.
1778	14249. 14265.
1779	2551. 7697. 7745.
1780	20715.
1781	2581.
1782	8597.
1783	3871. 20716.
1784	3896. 10061. 10108. 20713.
1785	14236.
1786	8550.
1787	1370.
1788	3811*). 10007.
1789	1422. 8406.
1790	3744. 3782. 15358.
1791	3841. 9978. 10022. 17718. 17746.
1792	3881. 18967.
1793	3842. 9979. 17719.
1794	12338.
1795	12372.
1796	3927. 10143.
1797	10062.
1798	3882. 10144. 10185. 18968.
1799	2604. 8551.
1800	7746. 7777.
1801	3872. 10063.
1802	7718. 14237. 14250. 14266.
1803	2564. 7698. 7747. 7778. 20106.
1804	10008.
1805	7612
1806	20078.
1807	18957.
1808	2582. 15359.
1809	3897. 10109.
1810	12339. 12373. 12399.
1811	1408. 2552. 8363. 15308. 15329.
1812	15309. 15340.
1813	10145.
1814	3873. 20717.
1815	2605. 3783. 8552.
1816	2583. 15360.
1817	8598. 8627.

*) 10105 ð—1'?; 3780 *AR*—1^m; 7743 *AR*—1^m; 3811 *AR*—1^s;

№ des Catalogs.		№ des Catalogs.	
1818	12340.	1887	7753. 15363. 15380. 20092.
1819	17747.	1888	15332. 15343. 15364. 15381. 20093.
1820	10023.	1889	18998.
1821	2584. 3745. 15361. 17816.	1890	14253.
1822	14251.	1891	7618. 12402.
1823	3812.	1892	2586. 20081. 21401.
1824	3843. 9980. 17720.	1893	3876. 10113. 20728.
1825	10065.	1894	8632.
1826	16258. 20089.	1895	10027. 10070.
1827	3898. 10066. 10110.	1896	21382.
1828	3928. 10146. 18958. 18969.	1897	3786. 8601.
1829	8599. 8628.	1898	2556.
1830	2606.	1899	2587. 2608.
1831	1371. 8343.	1900	7701. 7754. 15344. 15365. 21360. 21383.
1832	7613. 12341. 12374. 12400.	1901	10151. 16262. 17749.
1833	3929. 10147. 10186. 18959. 18970.	1902	10190.
1834	3813. 8600. 8629.	1903	3746. 8555. 17817.
1835	12342.	1904	17723.
1836	14252.	1905	3747. 8556.
1837	1409. 7699. 7702. 7748. 7779. 8364. 20090. 21358. 21378.	1906	1373. 7704. 8345. 14288. 14254. 20109.
1838	7689.	1907	5386.
1839	1423. 2558. 7700. 7703. 7749. 7780. 8365. 14267. 20091. 21359. 21379. 21399.	1908	15334.
1840	3784.	1909	2568. 2609. 7783. 21402.
1841	3874. 10024. 17748.	1910	7619. 12403.
1842	10187.	1911	12348. 12381.
1843	18996.	1912	17750. 18999.
1844	3844*). 9981. 10009. 17721. 20726.	1913	3847. 9985. 10012. 17776.
1845	20107.	1914	3932. 10114*).
1846	9982. 20727.	1915	3848. 9986. 10013. 17777.
1847	2554. 7750. 7781. 15330. 15341. 16259. 21380.	1916	3877. 10071. 20720. 20729.
1848	8630.	1917	17724.
1849	2565. 7719. 7751. 21400.	1918	14255. 14268.
1850	2555. 7782. 15331. 15342. 16260. 21381.	1919	18974. 19001.
1851	3930. 10148. 18971.	1920	10028.
1852	5383. 18997.	1921	5387. 10191.
1853	3845. 20718.	1922	2569. 2588. 7784. 21403.
1854	10067.	1923	7785. 20082.
1855	2607. 8553. 20079.	1924	12349. 12382.
1856	7614. 12343. 12375.	1925	10152. 18962.
1857	3814. 8631.	1926	3902.
1858	9983. 10010.	1927	7720. 14256. 20094. 20110.
1859	3899. 10068. 10111.	1928	7642.
1860	7615. 12344. 12376.	1929	6541. 10215. 12351. 12383.
1861	10025.	1930	7620. 12406.
1862	8482.	1931	7671.
1863	17722.	1932	15366.
1864	17775.	1933	10153. 17751.
1865	12345. 12377.	1934	7786.
1866	6540. 12346. 12378.	1935	12302.
1867	10026.	1936	3748. 17818.
1868	1372. 8344.	1937	1374. 7705. 7721. 8346. 15335. 20095. 21361.
1869	2585.	1938	1424. 8366. 14269. 15345.
1870	3031. 10149. 18960. 18972.	1939	10115. 10154. 17752.
1871	5384.	1940	3849. 9987. 17725. 17778.
1872	10069. 10112.	1941	2610. 3749.
1873	3815. 3875.	1942	10072. 20730.
1874	7616. 12401.	1943	10014.
1875	3785.	1944	5388. 10192. 18975.
1876	3900.	1945	20721.
1877	8554. 20080.	1946	3903. 10116.
1878	10150. 10188. 18961. 18973.	1947	7644. 7672.
1879	8554. 15362. 15379. 16261. 20108.	1948	6542. 10216. 12352. 12384.
1880	3846. 9984. 10011.	1949	2570. 7755. 21385. 21404.
1881	7640.	1950	10155.
1882	12379.	1951	3787. 8633. 15383.
1883	5385. 10189.	1952	1425. 14270. 15346.
1884	20719.	1953	10029.
1885	2566. 8483.	1954	6543. 12353. 12385.
1886	12347.	1955	3878.
		1956	12407.
		1957	2589. 7787. 8557. 16263. 20083.

*) 3844 δ—10″; 10114 *AR*—1^{m}.

№ des Catalogs.	
1958	10193. 19002.
1959	3904. 10117.
1960	6544. 12354. 12408.
1961	2611. 3750. 8602. 15367. 17779.
1962	3879. 10073. 20731.
1963	3957. 5389. 18976.
1964	2590. 7788. 8558.
1965	2612. 3751. 8603. 15368. 17780. 17819.
1966	10030. 17726.
1967	7789. 8559. 16264.
1968	9988. 10031. 17727.
1969	12409.
1970	17754.
1971	18923.
1972	12355. 12386.
1973	14257. 14271. 15336. 20111.
1974	1426. 2557. 7722. 15347. 20096.
1975	10156. 18963.
1976	6545. 10217. 12356. 12387.
1977	8635.
1978	3905. 10118. 18924.
1979	3933.
1980	7723. 20097.
1981	2571. 7756. 21386. 21405.
1982	10074.
1983	3789. 10016.
1984	9989. 10032.
1985	12410.
1986	7706. 8347. 14239. 14258. 14272. 15337. 21362.
1987	15385.
1988	7707. 14240. 14259. 14273. 15338. 20112. 21363.
1989	2591.
1990	7790.
1991	12357.
1992	3906. 10119. 10157. 17755.
1993	1375.
1994	3850. 9990. 10033. 17728.
1995	10075. 17729. 20733.
1996	1427. 7724. 15348.
1997	12411.
1998	2613.
1999	7621.
2000	7708*).
2001	8367. 20098.
2002	6546. 10218. 12303. 12358. 12388. 12412. 19003.
2003	8348. 20113.
2004	10158. 17756.
2005	3790. 8636. 10017. 15386.
2006	3752. 8560. 8604. 17781.
2007	3880. 10076. 20728.
2008	8605. 17782.
2009	2593. 7791. 17820.
2010	3934. 10159.
2011	2614. 16265. 21406.
2012	2558. 7709. 8349. 14274. 21364.
2013	12359.
2014	12053.
2015	12413.
2016	8561.
2017	3791. 8637. 10018.
2018	14260.
2019	18925.
2020	3958. 6547. 10219. 12304. 12389.
2021	3851. 10077. 17730.
2022	3908. 10120. 17757.
2023	2572.
2024	10194. 12360. 18977.
2025	10121.
2026	5390. 12054. 18978.
2027	3935. 10160.
2028	2573. 7757. 21387. 21407.
2029	15387.
2030	12414.
2031	1428. 7725. 8368. 15349. 20099. 21365.
2032	6548. 10220. 12305. 12390. 19004. 19030.
2033	3936. 10161.
2034	2594. 7792. 17822.
2035	3959. 5391. 10195. 12055. 12361.
2036	2615. 3753. 8606. 15369. 20084.
2037	12415.
2038	10122.
2039	9991. 10034. 20734.
2040	7674.
2041	12306. 19031.
2042	8638. 15388.
2043	9852.
2044	7675. 10255.
2045	10035. 20735.
2046	18926.
2047	6549. 12307. 12391. 19032.
2048	2595. 7793. 16266
2049	3853. 3881. 10019. 20724.
2050	7645*).
2051	2574. 7758. 17783. 21388.
2052	8730.
2053	1429. 2559. 8369. 20100.
2054	3882. 10078.
2055	3792.
2056	7622. 12418.
2057	3937. 10162. 17758.
2058	3960. 5392. 12056. 12362. 18979.
2059	2575. 7759. 15370. 17784. 21389. 21408.
2060	2576. 7760. 7794. 15371. 17785. 17823. 21390. 21409.
2061	1376. 7710. 8350. 15350. 21366.
2062	7726. 14275. 20114.
2063	7676.
2064	3961. 5393. 10196. 12392. 18964. 18980. 19005.
2065	6550 12308.
2066	8639. 15389.
2067	1377. 7711. 8351. 15351. 21367.
2068	3909. 10123.
2069	3962. 5394. 10197. 12057. 12393. 18965. 18981. 19006. 19033.
2070	5395. 18982. 19034.
2071	3938.
2072	15372. 17786. 21391. 21410.
2073	17759.
2074	12363.
2075	12394. 12419.
2076	3754. 8607.
2077	8732. 9992. 10020. 10036.
2078	2596. 2616. 16267. 17787. 17824. 21411.
2079	3884. 10080. 207:5.
2080	1430.
2081	14276.
2082	10081. 18927.
2083	7623. 7647. 7677.
2084	2577. 2597. 2617. 7761. 7795. 15373. 16268. 16274. 17788. 17825. 21412.
2085	3793. 8640.
2086	3854. 10037. 20738.
2087	3910. 10124.
2088	7678*). 10256.
2089	12058. 19007.
2090	1378. 7712. 8352.
2091	8733.
2092	7727. 14277.
2093	3755. 8608.
2094	20101.
2095	8641.
2096	10125.
2097	2578. 7762. 16269. 20102.

*) 7708 δ—6'; 7645 *AR*—10°; 7678 δ—1'.

№ des Catalogs.	
2098	3939. 10163.
2099	7679.
2100	8642. 15390. 17760.
2101	2598. 7796.
2102	7624. 10222.
2103	2560. 7728. 8370. 14278.
2104	3794. 10038.
2105	6551. 12309. 19008.
2106	10082.
2107	3963. 8609.
2108	15374.
2109	18928.
2110	7797.
2111	2599. 17826.
2112	6553. 10221. 12311. 19035.
2113	7729. 14279*).
2114	15391. 17761.
2115	1379. 3885. 8353. 20115.
2116	7625. 10223. 10257.
2117	10083. 10126. 10164. 10198. 18983.
2118	1431. 20128.
2119	12059.
2120	3940. 10127. 10165. 10199. 18984.
2121	7713. 8354.
2122	7626. 10224. 10258. 10293.
2123	18929.
2124	7648.
2125	12312. 12364. 19010.
2126	21424.
2127	5396. 12365.
2128	12420. 20129.
2129	8713.
2130	2600*). 3964. 7763. 7798.
2131	19036.
2132	12060.
2133	10225.
2134	10084. 10128.
2135	16275.
2136	21425.
2137	20116.
2138	1432.
2139	8371. 8734. 17789.
2140	10166.
2141	3965. 7764.
2142	3941.
2143	17762.
2144	8372. 8735. 17790.
2145	3911. 15447.
2146	7730.
2147	2618.
2148	10039.
2149	15392. 17763.
2150	10167. 12061. 12395. 19011.
2151	10259. 10294.
2152	20739.
2153	3966.
2154	12421. 20117. 20130.
2155	6554. 10200. 19037.
2156	10260. 16276.
2157	17827.
2158	10085. 10129. 18930. 21479.
2159	7830. 10295. 16277.
2160	6569.
2161	3886. 7731. 12422.
2162	8714. 8736. 21426.
2163	7714.
2164	6555. 10201.
2165	8643. 10040. 15375.
2166	10168. 12062. 19012.
2167	8676. 17791. 17828.
2168	6570. 10226.
2169	2631. 8644. 10041. 15376.
2170	10130. 18985.
2171	17764.
2172	12423. 20131.
2173	18931.
2174	3912.
2175	3942. 12424. 13259. 15448. 20132.
2176	10131. 21460. 21480.
2177	1445.
2178	6556. 10202. 19038.
2179	3967.
2180	7881. 10261. 10296. 16278.
2181	10042.
2182	8645. 15393.
2183	10169.
2184	1446. 3943. 13260. 15449.
2185	5397. 21461.
2186	6571*). 10227.
2187	8715. 10086. 21427.
2188	3913. 20118.
2189	7799.
2190	2619. 7810. 15377. 20740.
2191	3968. 16270.
2192	8373. 8737. 18932. 21445.
2193	10228.
2194	7800.
2195	3969. 7765.
2196	10043.
2197	10087.
2198	7732. 20133.
2199	5411*). 5431*). 6557. 10171. 12063. 19013. 19039. 21481.
2200	5398. 10132. 18986. 21462.
2201	16271.
2202	5412. 5432. 6558. 10172. 10203.
2203	3914. 13293. 20119.
2204	2620. 8646. 8677. 15394. 17765. 17829.
2205	5468. 6572. 10229.
2206	10044. 18933.
2207	17792.
2208	10362. 12425. 15451.
2209	7866. 10262. 16279.
2210	10045. 10088. 18934.
2211	7832.
2212	8374. 10046. 10089. 18985. 21428. 21446.
2213	10133.
2214	17766.
2215	12426. 20134.
2216	10297.
2217	6573. 10230*).
2218	5469. 10231.
2219	12064
2220	5399. 21463.
2221	19014.
2222	13261.
2223	2632. 7811. 8683. 8716. 15378. 17793.
2224	3915. 13294. 20120.
2225	2648*). 18936.
2226	3970. 7766.
2227	10090. 18987.
2228	8678. 8738. 17830. 21429.
2229	8739. 21430.
2230	1447. 3944. 7733. 15452.
2231	7833. 10263. 10298. 16280.
2232	5400*). 21482.
2233	16272.
2234	2621. 8647. 15395.
2235	5401*). 21464. 21483.
2236	10134. 18988. 19015.
2237	5413. 5433. 6559. 10204. 12065. 19040.
2238	13295.

*) 14279 $\delta+3'$; 2600 *AR*$+1^m$; 6571 $\delta-1'$; 5411, 5431 *AR*$+1^m$; 10230 *AR*$+1^m$; 2648 $\delta+1'$; 5400, 5401 *AR*$+10^s$.

№ des Catalogs.	
2239	12427. 13262. 20135.
2240	7715*). 10363. 12428. 13263. 20136.
2241	3971. 7767.
2242	10299.
2243	17767.
2244	5470. 10232.
2245	10047.
2246	7834. 16281. 16287.
2247	7768. 7802.
2248	3945. 15453.
2249	10233.
2250	10300.
2251	5414. 6560. 10091. 10173. 12067. 19016. 19041. 21481.
2252	2622. 2633. 8648. 8679. 21431. 21447.
2253	10205.
2254	5447. 10206.
2255	21485.
2256	10174. 21486.
2257	5471. 7835. 10264.
2258	5415. 5434*). 6561. 19017.
2259	17768. 17794. 17831. 18989.
2260	3916. 13296. 20121. 20137.
2261	5402. 21465.
2262	6574.
2263	1449. 3946. 10329. 13274.
2264	1458. 16273.
2265	2634. 8649. 8740. 15396. 15454. 21432.
2266	7769. 7803.
2267	7812.
2268	8684. 8718. 8741. 10048. 17769. 18990.
2269	7836. 10265.
2270	7770. 7804.
2271	5416. 5448. 6562. 10175. 10234.
2272	7867.
2273	3972.
2274	10301.
2275	5435. 6575.
2276	2623. 8650. 8686. 8720. 8742. 17771. 21433. 21448.
2277	19018.
2278	17795. 17832.
2279	5449. 10176. 12068. 21487.
2280	2649. 8375. 18987.
2281	3917. 3947. 10330. 10364. 12429. 13264. 13275. 13297. 20122.
2282	8680.
2283	2635. 10049. 15397. 17833.
2284	7837. 10266. 16288.
2285	5472. 10235.
2286	5417. 5436. 6563. 10177. 21488.
2287	3973.
2288	20166.
2289	5403. 10092. 10185. 21466.
2290	1450.
2291	5437. 6564. 12069.
2292	10050. 15398. 15455. 18991.
2293*)	3948. 10332. 10365. 12430. 20123.
2294	1459.
2295	5450. 10207.
2296	5451. 10208.
2297	5418. 5438. 10178. 12070. 19019. 21489.
2298	7838. 10267. 16289.
2299	17796.
2300	5419. 5439. 6565.
2301	13265. 13298. 20138.
2302	10093.
2303	6576.
2304	21449.
2305	7805.
2306	2650. 18939.
2307	8376.
2308	3918.
2309	10179. 12071.
2310	3949. 10333. 12431. 13276. 20168.
2311	7868. 10302.
2312	8721. 21434.
2313	8651. 8743. 10051. 15456. 17772. 17797.
2314	15406.
2315	1451. 10366. 13266. 13299.
2316	2636. 7813.
2317	5473. 10209. 10237.
2318	5452.
2319	3974. 7734. 20235.
2320	10268.
2321	2651. 7892.
2322	3919. 10367. 13267. 13300. 20139.
2323	15399.
2324	15476 21450.
2325	10334. 12432.
2326	1452.
2327	2624. 8652. 8681. 8687. 10052. 15400. 15457. 17773. 17798. 17834.
2328	18992.
2329	5404. 10094. 10136. 21467.
2330	10095.
2331	3920. 13301.
2332	8688. 8744. 10053. 17774. 17799.
2333	8377. 21435. 21451.
2334	6566.
2335	5453. 6577. 19020. 21490.
2336	7839. 10269. 10303. 16282. 16290.
2337	7840. 7869. 10304. 16283. 16291.
2338	7870. 10305. 16292.
2339	7841. 7871. 10270. 10306.
2340	10180.
2341	18940.
2342	8378. 8722. 10096. 15477. 21436. 21452.
2343	8379. 8723. 10097. 15478. 21437. 21453.
2344	20124.
2345	2652. 7893.
2346	7916.
2347	10239.
2348	1460. 3975. 20236.
2349	7771. 7807.
2350	3950*). 10335. 15407. 20125.
2351	3921. 13302. 20169.
2352	16284.
2353	1453. 3951. 7735. 10336. 10336. 10368. 13268. 15408. 15458. 20126.
2354	5405. 10187. 21468.
2355	7872. 10271. 10307.
2356	15401.
2357	1454. 15409. 15460.
2358	5420. 5440. 6578. 19021.
2359	5474. 10240.
2360	18941.
2361	2625. 2637. 8682. 8689. 17800. 17835. 21454.
2362	3922. 7736. 13303.
2363	3976. 20237.
2364	5454. 10181. 10210. 21491.
2365	10098.
2366	2653.
2367	7917.
2368	2654. 7894. 8380. 10099. 15479.
2369	10369. 13269.
2370	8653. 8745. 17839. 21438.
2371	2638. 8691. 10054.
2372	3952*). 10337. 13277. 20127. 20140. 20170.
2373	15402.
2374	7814.
2375	2626. 8654. 8746. 15403. 15428. 17840. 21439.
2376	5475. 6579. 10241. 10272.
2377	5406. 21469.

*) 7715 *AR*+1m; 5434 δ+3′; 2293 dupl. sq.; 3950 *AR*+1m; 3952 δ+1′.

№ des Catalogs.	
2378	3953. 10338.
2379	7737. 15410.
2380	3923.
2381	5421. 5441. 19022. 19042. 21492.
2382	7842. 7873. 10308. 16285. 16294.
2383	2627. 4802. 8655. 15404. 15424. 17841. 21440.
2384	1455. 10370. 15411.
2385	19023. 19043.
2386	1456. 10371. 15270. 15412. 20212.
2387	10100.
2388	10339. 20141.
2389	4804. 8656. 17837.
2390	2639. 8753. 10055. 15462.
2391	3977. 20238. 20254.
2392	3954. 13278. 20171.
2393	7815. 17801.
2394	7816. 8692. 8747. 17802. 21455.
2395	3978. 7808. 20239. 20255.
2396	17838.
2397	7817. 8693. 8748. 21456.
2398	7772.
2399	2670. 6580. 10273.
2400	3955. 10340. 20174.
2401	18942.
2402	2649. 10056.
2403	7843. 7874. 10309.
2404	15480.
2405	15405.
2406	6581. 10274.
2407	8381.
2408	10211. 10242.
2409	7738. 13279. 20142.
2410	7844. 7875. 10310. 16286.
2411	2655. 7895.
2412	8754. 10057.
2413	8694.
2414	10101.
2415	7918. 10138.
2416	3979. 7809. 20240. 20256.
2417	12448. 20213.
2418	10341. 13271. 15425. 15463. 15481. 20175.
2419	5455. 5476. 6567. 6582. 10182. 10212. 10243. 19024. 19044. 21470. 21493.
2420	1461. 2628. 7818. 8657. 21441.
2421	8658. 8749.
2422	5442.
2423	5456. 6568. 10183. 10213. 10244. 10275. 19025. 19045. 21471. 21495.
2424	5457. 5477. 6583.
2425	2671. 8695. 8755.
2426	3956. 10372. 13280. 15413. 15464.
2427	2641. 8382.
2428	10276.
2429	20143.
2430	1457.
2431	7858. 21457.
2432	2656*). 7819. 21442.
2433	13272. 15414. 15426. 15482.
2434	12474.
2435	5478.
2436	2672.
2437	2629. 2657. 7820. 21443.
2438	3980. 10342. 20172. 20176.
2439	5443. 5458. 7896. 7919. 21472.
2440	21496.
2441	10277. 10311.
2442	7859. 8756. 21458.
2443	10373.
2444	10278. 10312.
2445	13273. 15415. 15440. 15483.
2446	2673. 8696.
2447	7821. 8750. 21444.
2448	5422. 7897.
2449	2642.
2450	12433. 12449.
2451	7845. 7876.
2452	20173.
2453	10343. 10374. 15465. 20144. 20177.
2454	2630. 7822. 21459.
2455	3981. 10344. 10375. 15466. 20145. 20178.
2456	3982. 10345. 10376. 15467. 20146. 20179.
2457	15416. 15427. 15441. 15484.
2458	5423. 7920.
2459	2643.
2460	2658.
2461	7846. 7877. 10314.
2462	7847. 7878. 10315.
2463	2674.
2464	4810. 7860. 8757.
2465	4805.
2466	5424. 7922.
2467	2644.
2468	12434. 12450.
2469	5444. 5459. 10245.
2470	2659. 7823. 20152.
2471	2660. 7824. 20153.
2472	10396.
2473	5425*). 7923.
2474	10279.
2475	7861.
2476	7848.
2477	7879. 10316.
2478	3983. 10346. 20147. 20180.
2479	10347. 20148.
2480	10377.
2481	10378. 12451.
2482	5479. 10280.
2483	5426.
2484	12475.
2485	7862. 8758.
2486	10397. 10437. 12435. 12452.
2487	4024. 10398. 10438. 12436. 12453. 15485.
2488	2645. 8697. 8724.
2489	5480.
2490	4806.
2491	20257.
2492	7849. 10317.
2493	20241.
2494	10281.
2495	8698.
2496	10379. 15442. 20181. 20214.
2497	19026.
2498	10399. 12437. 15468. 15498.
2499	4811. 5427. 7898.
2500	2646. 20154.
2501	5489.
2502	2661. 7825.
2503	2675. 7863. 8751. 16295. 17842.
2504	5481. 10246. 19027. 19046.
2505	10439. 15417. 15486. 20242. 20258.
2506	21497.
2507	20149.
2508	8759. 16296.
2509	10282.
2510	3984. 10348. 13281.
2511	15443. 15487.
2512	12476.
2513	15469. 15488.
2514	12454.
2515	5482. 10247. 19047.
2516	10380. 10440. 20182. 20215.
2517	10381. 10400. 10441. 20216.

*) 2656 $\mathit{AR}+1^{m}$; 5425 $\mathit{AR}+1^{m}$.

№ des Catalogs.	
2518	5428. 7899.
2519	2647. 8699. 17843. 20155.
2520	4025. 12455.
2521	12477.
2522	10349. 20150.
2523	7880.
2524	10488. 12478.
2525	3985. 10350. 13282. 20151.
2526	1462.
2527	15418. 15499. 20243. 20259.
2528	15489.
2529	5445. 5461. 7924. 8781. 21498.
2530	10248.
2531	7850. 10283. 10319.
2532	13336.
2533	12456.
2534	21473.
2535	10489. 12479.
2536	7881. 10320.
2537	7900.
2538	19048.
2539	5446. 10249.
2540	5462. 21499.
2541	20244. 20260.
2542	12457.
2543	4812. 5429. 7901. 7925. 8782.
2544	15490.
2545	2662. 7826. 17844.
2546	7902. 7926. 8783.
2547	5463. 10250. 21474.
2548	13283. 20183.
2549	10382. 10401. 13284. 15419. 15444. 20184.
2550	3986. 10351.
2551	4823*).
2552	12438. 12458. 13285. 20245. 20261.
2553	10383. 10402.
2554	12439. 12459.
2555	1477. 2676. 8700. 20156.
2556	5483. 10284. 19028. 19049.
2557	1463. 4807. 12481. 15470. 16297.
2558	4026. 10442. 20217.
2559	7851. 7882.
2560	5484. 5491. 19050.
2561	1464. 15471. 16298.
2562	5485. 5492. 7927. 10285. 19051.
2563	10352.
2564	2663. 8725. 17845.
2565	2664. 17846.
2566	15500.
2567	20246. 20262.
2568	5493. 7928. 10286. 19029.
2569	10468. 16299.
2570	4813. 5430. 21475.
2571	20157.
2572	7852. 7883. 10321.
2573	12460. 20247. 20263.
2574	3989. 15501.
2575	4000. 10403. 10443. 13286. 20248. 20264.
2576	12461.
2577	8861.
2578	1465. 4045. 10469. 10490. 16300.
2579	2677. 20158.
2580	2665. 2678. 8726. 20159.
2581	13287*). 20249. 20265.
2582	7853. 7884. 10287.
2583	4001. 10444. 13288. 20250. 20266.
2584	3478.
2585	4814. 7864.
2586	10470. 12482.
2587	12440. 12462.
2588	8760.
2589	10822.
2590	7903. 8784.
2591	20218.
2592	4046. 4808. 10471.
2593	3990. 8862. 10353. 15420. 15472. 15491. 15502. 20185.
2594	1466*). 10491. 13337. 16301. 17876.
2595	3991. 4002. 8863. 10354. 10384. 10404. 10445. 15421. 15473. 15492. 15503.
2596	7854. 7885. 10288.
2597	2666. 7827. 8727. 20160.
2598	12483. 17847.
2599	5464. 7904. 7929. 8785. 21476.
2600	2684. 4824. 5486. 5494. 10251. 19052. 21500.
2601	5465. 7905. 8786. 21477.
2602	4047. 4809. 12484. 12505. 17849.
2603	4003. 10405. 10446.
2604	13289.
2605	1433*).
2606	1479. 2667. 7828. 8701. 20161.
2607	10492. 13338. 16302.
2608	10323.
2609	8761.
2610	10355. 10406. 10447. 15422. 15493. 15504. 20220.
2611	2679. 8752.
2612	15494. 15505.
2613	4027. 10385. 20251. 20267.
2614	2685. 4825. 5487. 10252. 19053. 21478.
2615	4028*). 10407. 10448. 12441. 13291. 20252. 20268.
2616	4004. 10386.
2617	13339.
2618	4005. 8864. 10356.
2619	5466.
2620	2680. 7865. 8728. 8762. 20741.
2621	7855. 7886. 8828. 10289.
2622	5467. 7907.
2623	5495. 7856. 7887. 8829. 10290.
2624	1484.
2625	4029. 8865. 10387. 10408. 12464. 13292. 20253. 20269.
2626	10325*).
2627	4065. 10472. 10513.
2628	15506.
2629	4048. 10449. 12485.
2630	17877.
2631	2681.
2632	1435*). 20187.
2633	2686. 5488. 7931.
2634	4826. 5496. 8787*). 10253.
2635	10291. 10326.
2636	1480. 2668. 8763. 10493. 17878. 20162. 20742.
2637	7857. 7888. 10292.
2638	8830*). 10327.
2639	4082.
2640	5489. 7932.
2641	2669. 8729. 10494.
2642	2682. 4083. 7829. 10495. 10546.
2643	4827. 5497. 6584. 10254.
2644	4066. 10450. 10473.
2645	12506.
2646	4030. 8866. 10388. 20199.
2647	1436. 20188.
2648	10496. 20163.
2649	12486. 13316. 20275.
2650	7908.
2651	10547. 20743.
2652	1467. 8867. 10357.
2653	10389.
2654	8788.
2655	13340.
2656	12442. 12464.
2657	8831.
2658	10409. 10421. 10514. 13317. 17850. 20270.

*) 4823 *AR*+10ˢ; 13287 *AR*+10ˢ; 1466 *AR*+1ᵐ; 1433 *AR*+1ᵐ; 4028+*AR*−10ˢ; 10325 *AR*+1ᵐ; 1435 *AR*−3ᵐ; 8787 *AR*−4ᵐ; 8830 δ+1′.

№ des Catalogs.		№ des Catalogs.	
2659	10410. 10422. 10515. 13318. 17851. 20271.	2729	2691. 7936.
2660	4084. 10497. 10548. 17879. 20164. 20744.	2730	8793.
2661	12443. 12508. 20276.	2731	1410. 4037. 12493.
2662	2683. 4031. 10390.	2732	4009. 4053. 8903. 8923. 10417. 10521. 17857. 20204.
2663	1481*). 8764. 17880. 20165. 20745.	2733	7937.
2664	10451. 13341.	2734	20748.
2665	2687. 7909. 7933.	2735	4817. 16352.
2666	8765. 10549.	2736	4069. 10423. 10456. 10480. 13346.
2667	4032. 8898. 10411. 10516. 12465. 12487. 13319. 17852. 20200.	2737	12494.
2668	12488.	2738	16376.
2669	20189.	2739	2692. 7913. 10579.
2670	4067*). 10452. 10474.	2740	17882. 17883.
2671	12466. 12489. 13320. 17853.	2741	1471. 20193.
2672	10391. 15428.	2742	6586. 19135.
2673	1437. 1468. 10358. 20190.	2743	1484.
2674	4828.	2744	1541. 4818*). 16353.
2675	19118.	2745	12514.
2676	10423. 10517. 20272. 20277.	2746	1485. 1525. 4089. 10502. 10554. 14280. 20749. 21504.
2677	4033. 8899. 8920. 10392. 12444.	2747	4010. 10418. 12495.
2678	5498. 19119.	2748	13327.
2679	4085. 10498. 10550. 12509. 21501.	2749	1411.
2680	7889.	2750	5502. 8834. 19122.
2681	10412. 10424. 12467. 13321. 17854.	2751	1526. 4090. 10555. 17884. 21505.
2682	10475.	2752	4011. 8924. 10429. 12496. 19080.
2683	8868. 10359.	2753	1527. 10503. 10556. 14281. 17885.
2684	8832.	2754	1439.
2685	10413. 10518.	2755	1472.
2686	2688. 7934. 8789. 16348.	2756	8794.
2687	4049. 4068. 10453. 13342. 20273.	2757	15434. 20194.
2688	10476.	2758	10522.
2689	4829. 7890.	2759	8873. 8904. 13367.
2690	12445. 12468.	2760	15435. 20195.
2691	4050. 10454. 12510. 13343.	2761	2693. 8795. 19154.
2692	4006. 8869. 15429.	2762	19155.
2693	12446. 12469.	2763	4070. 10481. 12515.
2694	4086. 10499. 10551. 21502.	2764	16354. 16379.
2695	7935. 8799.	2765	1440. 4038. 5515. 8905.
2696	2689. 7910. 16349.	2766	4819. 16355. 16380.
2697	4034. 8900. 10393. 10414. 10425. 17855. 20201.	2767	1489. 1511. 17858.
2698	1482. 8766. 20746.	2768	4071. 10457. 10482. 12516.
2699	1438. 4007. 8870. 15430. 20191.	2769	12497.
2700	4051. 10477. 13344.	2770	4012. 4091. 8925. 10480. 10523. 19081.
2701	8921. 10519. 13322. 13323.	2771	5503. 8835. 19054.
2702	4035.	2772	4054. 10419. 13328.
2703	4087. 10500.	2773	19123. 21506.
2704	1469. 8871. 10360.	2774	20205.
2705	5500. 19120.	2775	1542. 7938.
2706	8901. 10394. 10415. 10426. 12490 20202.	2776	10557.
2707	12447. 12470.	2777	1512. 10458. 10524. 17859.
2708	4008.	2778	3992. 4013. 4092. 8926. 10483. 12498. 19082. 20750.
2709	2690. 7911. 8791. 10577.	2779	8796.
2710	4052. 10455 10478. 10520. 12511. 13345.	2780	12471.
2711	1483. 4088. 8767. 10552. 17881. 20747.	2781	5516. 8874. 13368. 15436.
2712	10479. 12512.	2782	6587. 19136.
2713	13324.	2783	2694. 19156.
2714	4036. 10395.	2784	19055.
2715	17856.	2785	1528. 1543. 4820. 7914. 7939. 10580. 14282. 16313. 16356. 16381. 17886.
2716	8902. 8922. 10416. 13325. 20203. 20274.	2786	1441. 8906. 20197. 20206.
2717	8768. 10501. 10553. 21503.	2787	4055. 10420. 10431. 12472. 13329.
2718	15495.	2788	12517.
2719	12491.	2789	1474. 1486. 10558. 12518. 15445. 15478. 15509. 20751.
2720	4815. 16350.	2790	12499.
2721	4830. 6585. 7891. 19134.	2791	1512. 10459. 10525. 16382. 17860. 20221.
2722	12513.	2792	1490. 10484. 13347. 19083.
2723	8792.	2793	6588. 8836. 17862. 19056. 19137.
2724	13326.	2794	3993. 4014. 4056. 8907. 15437.
2725	5501. 8833. 19121.	2795	1544. 10581.
2726	1470. 8872. 15431. 20192.	2796	1529. 7915. 14283. 16314. 17887.
2727	12492.	2797	5517.
2728	4816. 7912. 10578. 16351.	2798	5407. 19124.

*) 1481 $\delta - 1'$; 4067 $AR + 10^s$; 4818 $\delta + 10''$.

№ des Catalogs.	
2799	12473. 12500. 13304. 13330.
2800	1442. 1473. 4039*). 5518. 8875. 10361. 13369. 20198.
2801	4015. 4057. 4093. 8908. 15438. 15446. 15475. 15496.
2802	2696. 7940. 16357. 21507.
2803	8876. 13370.
2804	4831. 6589. 19057. 19138.
2805	1487. 10504. 10559.
2806	1491. 1514. 8927. 10432. 10460. 10485. 10526. 13348. 13352. 16326. 19084.
2807	8797. 21508.
2808	5408. 8837. 19125.
2809	15439. 15497.
2810	12501.
2811	1475. 17861.
2812	8798.
2813	1443*). 4016. 8702. 10461. 10527. 13305. 13331. 20207. 20222.
2814	13371.
2815	10528. 12502. 13349. 13353.
2816	1545. 2697. 16383.
2817	6590. 8838. 17863. 19139.
2818	1586. 7941. 8799. 20757. 21509.
2819	1444. 4017. 4058. 8909. 10433. 10462. 15510. 16358. 20223.
2820	1488. 1501. 10505. 21538.
2821	1531. 1556. 4821. 10560. 17888.
2822	1412. 12519. 20752.
2823	5519. 19126.
2824	13306. 13382. 19085. 20208.
2825	10529. 12503. 13354.
2826	4094. 10561.
2827	1492. 4040. 4059. 8703. 8910. 16315. 16359. 19068. 20224.
2828	6591. 19140. 19158.
2829	14284.
2830	12520.
2831	17864.
2832	5520. 19127.
2833	17889.
2834	4072.
2835	1413. 10506. 10562. 16384. 17890.
2836	12521.
2837	8882. 8911. 10486. 12504. 19086. 20225.
2838	4041. 4060. 13307. 15511.
2839	19141. 21510.
2840	1532.
2841	1515*). 4018. 8968. 10434. 10463. 10530. 13333. 13350. 13355. 16327. 16360. 19069. 20209.
2842	4042. 4061. 8912. 8928. 13308. 20226.
2843	1516. 8969. 10435. 10464. 10531. 13334. 13351. 13356. 16328. 16361. 19070. 20210.
2844	10582.
2845	5409. 6592. 8805. 19142. 19159. 21511.
2846	6593. 8806. 19143. 19160. 21512.
2847	14323.
2848	4832. 8877. 13372. 16316. 19128.
2849	1502. 10507. 10563. 16385. 17891. 21539.
2850	1546. 1557. 2698 20753. 20758.
2851	19058.
2852	1476. 12522.
2853	17865.
2854	4073.
2855	10583.
2856	16303.
2857	1517. 10465. 13335. 15512. 16329. 20227. 20278.
2858	1493. 8913. 10532. 19098.
2859	1571. 10564. 21521.
2860	5521. 19129.
2861	1503. 10584. 16386. 17892. 21540.
2862	14285.
2863	13373*). 13383*). 20789.

№ des Catalogs.	
2864	14349. 20211.
2865	13374. 13394. 20790.
2866	5410. 8807. 8839. 19161. 19188.
2867	1547. 1559. 20754. 20759.
2868	12523.
2869	1587. 8800. 21513.
2870	3994. 19059.
2871	6594. 19144.
2872	1504. 17893.
2873	13395. 19130. 20791.
2874	4062. 8808. 8840. 17866. 19162.
2875	14350.
2876	10466. 13309. 19087. 20279.
2877	1588.
2878	1494. 8914. 10508. 12524. 20228. 20290.
2879	2712. 4095. 4833. 8704. 8878. 13375. 13384. 16304. 16317. 16362. 20792.
2880	1589. 19189.
2881	19071.
2882	1505 9001. 10533. 10585. 14325.
2883	1572. 8801. 20760. 21514.
2884	4019. 4043. 8883. 8970. 10436. 10467. 10487. 13310. 13357. 19088. 19099. 20280.
2885	1533. 4074. 10565. 14351. 16387. 17894. 21522.
2886	4822. 14286. 14287. 14326.
2887	1548. 20755.
2888	3995. 8841. 16330. 19060.
2889	19163.
2890	1549. 20756.
2891	1534. 1560. 4075. 14352. 16388. 17895.
2892	8802. 19145.
2893	1518. 10509. 21541.
2894	15513. 20291.
2895	1561. 9021. 10566. 17896.
2896	10567. 17897.
2897	1414. 9002. 14300.
2898	5522. 8705. 8879. 13376. 13396. 16318. 19131. 20793.
2899	1495. 7954. 16363. 19072.
2900	21515.
2901	4834. 13397.
2902	8915. 8971. 10510. 10534.
2903	8972. 10511. 10535. 20230.
2904	20281.
2905	9003. 10512. 10536. 19100. 20761. 21542.
2906	2713. 16305.
2907	2728. 7955. 9004. 10537. 19101. 20762. 21543.
2908	5523. 8706. 8880. 13358. 13377. 13385. 13398. 16319. 19132. 20794.
2909	3996. 8842. 16331. 17867. 19061. 19164.
2910	1415. 10586. 14301. 14327. 17898. 20808. 21523.
2911	1590. 8809. 19146. 19172. 19190. 21516.
2912	1416. 4076. 10587. 14302. 14328. 17899. 20809. 21524.
2913	16306.
2914	14288.
2915	1506. 8973. 9005. 9022. 10538. 16389. 20308.
2916	2714*). 13399. 20795.
2917	4063. 6595. 17868.
2918	1562. 8810. 19147. 19191.
2919	16307.
2920	1519. 4020. 8884. 8916. 15514. 19073. 19102. 20292.
2921	1573. 20763.
2922	4044. 6632. 13311. 13359. 16320. 20231. 20282.
2923	14353.
2924	1496. 1520. 14303. 14329. 15515. 19089.
2925	19133.
2926	1563. 8016. 8803. 19173. 19192. 21517.
2927	4077. 8917.
2928	10569. 10588. 17900. 20810. 21525.
2929	1591*). 19174.
2930	2699. 6596. 8843. 17919. 19165.

*) 4039 $\delta + 1^{\circ}\ 0'\ 2''.8$; 1443 $\delta - 1'$; 1515 $\delta - 4'$; 13373, 13383 $AR + 10^{s}$; 2714 $AR - 10^{s}$; 1591 $\delta + 3'$.

№ des Catalogs.	
2931	2729. 7956. 14304. 14330. 16364. 19090. 19103.
2932	1497. 1521. 4021. 8885. 14331. 15516. 19091. 19104. 20293.
2933	8811. 14375. 19148.
2934	1592. 8804. 21518.
2935	2700. 17920.
2936	2715. 4835. 8707. 16308.
2937	1535. 10539. 14354. 16390. 21544.
2938	13312. 20283.
2939	4022. 8886. 19074. 20294.
2940	1507. 8974. 9006. 9023. 14332. 20309.
2941	1508. 1550. 8975. 9007. 9024. 10540. 10589. 14417. 20310. 20811.
2942	19175.
2943	6633. 8881. 13360. 16321.
2944	10570. 14396. 17901.
2945	2701. 4078. 6597. 16332. 17869. 17921.
2946	4064. 8812. 8844. 19166.
2947	19092.
2948	13378. 13386. 13400. 16309. 20796.
2949	2730. 7973. 8918. 8948. 19093. 20295.
2950	2702. 4079. 6598. 16333. 17922.
2951	1574. 8017. 20764.
2952	14289.
2953	1551. 8976. 10541. 10590. 14355. 20811. 20812. 21545.
2954	1593. 14376. 19176. 19193.
2955	10571. 14397. 17902.
2956	8845. 19149. 19167.
2957	7957. 7974. 8708. 15517. 16322.
2958	14333. 14356. 16391. 19105.
2959	7958. 7975. 15518.
2960	1498. 8887. 19094.
2961	2703. 4080. 6599. 16334. 17870. 21519.
2962	20765.
2963	1564. 10572. 14398. 20813.
2964	14377. 17924. 19177. 19194.
2965	16365.
2966	13313. 13361. 20232. 20284.
2967	1575. 20766.
2968	1509. 1536. 8977. 9008. 10542. 14334. 19106. 21526.
2969	1522. 8949. 19075.
2970	13379. 13401. 20797.
2971	2731. 4023. 8919. 17908. 20296.
2972	14335.
2973	1499. 7959. 8888. 16335.
2974	17871.
2975	6600. 19150.
2976	1594. 8018. 14378. 17925. 19178.
2977	19095.
2978	2716. 6634. 8709. 13362. 16323. 16366. 16392. 20285.
2979	20767.
2980	2704. 6601. 8846. 19062. 19151.
2981	3997. 8813. 8847. 19168.
2982	20297.
2983	8978. 9009. 19107.
2984	16310.
2985	13314. 20233.
2986	1576. 14290. 19179. 20768.
2987	1537. 1552. 10573. 10591. 14336. 14357. 14399. 17903. 20814.
2988	4081. 17872. 21520.
2989	2705. 8998. 6602. 8848. 19063. 19152.
2990	2717. 6635. 8889. 13363. 16324. 16336. 16367. 16393. 20286.
2991	1510. 8979. 10543. 21527. 21546.
2992	14379. 17909. 19096.
2993	13402. 16311. 20798.
2994	1538. 1553. 9010. 9025. 10574. 14305. 14337. 14358. 14400. 17904. 20312. 20815.
2995	1539. 1554. 1565. 9011. 10575. 14306. 14359. 14401. 14418. 16337. 17905. 20313. 20816.
2996	1540. 1555. 1566. 10576. 14307. 14338. 14360. 14402. 14419. 16338. 17906. 20314. 20817.
2997	8814. 17926.
2998	4836. 5524. 8710. 13364. 13380. 16312. 16325. 20287.
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3004	14293. 14339.
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3012	10545. 21548.
3013	9026. 10593. 17907. 17910. 21528. 21549.
3014	1654. 2706. 3999. 14474. 17927. 19064. 19153.
3015	19076.
3016	17873.
3017	2719. 13365. 13381. 13404. 20288.
3018	8020. 8815. 17945. 19197.
3019	14475.
3020	14308. 14381. 14403. 20315.
3021	5526. 8712.
3022	6636. 7962. 13315. 18015.
3023	2734. 7978. 14361. 20300.
3024	2720. 13366. 13382. 20799.
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3027	1567. 8955. 20316.
3028	1614. 17875.
3029	14362.
3030	5527. 14309. 14382. 17950.
3031	1632. 9027. 19180. 20769. 20818.
3032	13406. 20800.
3033	2735. 7979. 14363. 20301.
3034	2744. 6637. 20289.
3035	1655. 19065.
3036	5528. 7994. 14310. 14404. 20317.
3037	14420.
3038	14495.
3039	1578. 8021. 9028. 14294. 19198. 20819.
3040	7963. 8929. 14340. 15520. 19110.
3041	7964. 8930. 14341. 15521. 19111.
3042	20801.
3043	14582.
3044	2721. 12542. 13407. 20802.
3045	4861. 6638. 18016.
3046	8956. 14405. 16339.
3047	14383. 17951. 20318.
3048	1664. 14476. 14496. 17928.
3049	14454.
3050	2736. 7980. 14364. 17911. 20302.
3051	14522.
3052	7965. 16428.
3053	14497.
3054	20770.
3055	2737. 7981. 14365. 15522. 17912. 19077.
3056	14455.
3057	1568. 7995. 8957. 14384. 16340. 17952. 20819.
3058	14406.
3059	1645. 8816. 17946. 19181.
3060	14545. 14583.
3061	8950. 14546. 14584. 21529.
3062	14456.
3063	1579. 5529. 9029. 14311. 20820.
3064	4862. 6639. 18017. 20338.
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№ des Catalogs.	
3066	15523.
3067	5504. 7996. 14385. 14407. 17953.
3068	7966. 8931. 19112.
3069	14498. 14523.
3070	14585.
3071	14477. 14499. 14524. 17929. 19066.
3072	13408.
3073	8951. 9076. 20775. 21551.
3074	6678. 7982. 16424. 20303.
3075	1646. 8086. 8817. 17947. 19182. 19199.
3076	9030 20821.
3077	5505. 7997. 8958. 14408. 21530.
3078	14478.
3079	1580. 5530. 8980. 16341.
3080	12586. 18018. 20803.
3081	14295. 14421.
3082	2745. 4850. 4863. 6640. 14342. 14366. 20339.
3083	14343.
3084	17930.
3085	1602. 2776. 14559. 17954.
3086	1656*). 2707. 14479. 17931. 19067.
3087	2762. 6615. 12543.
3088	14409.
3089	2738. 7983. 8932. 15524. 19078.
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3091	12553. 15544. 20804.
3092	1581. 1597. 5531. 8981. 9031. 14312. 14886. 17913. 20771. 20822.
3093	9012. 14430.
3094	1582. 1598. 8982. 9032. 14313. 14387. 20772.
3095	1675. 6648. 8933. 20304.
3096	14368.
3097	14500. 14525.
3098	1665.
3099	2777. 4893. 8952. 9077. 14547. 14586. 17955. 20320. 20776. 21552.
3100	4864. 4878. 6641. 19113. 20340.
3101	1569. 5506. 7998.
3102	2739. 8934. 15525.
3103	14410.
3104	8057. 8087. 8818.
3105	7999. 8959. 14344. 14369. 20846. 21531.
3106	1638. 8022. 9013. 14422. 14458. 19182. 19200.
3107	20773.
3108	6679. 16425. 19079.
3109	4851. 4865. 6642. 20341.
3110	1603. 2778. 4894. 8953. 9078. 14587. 20777. 20823. 20847. 21553.
3111	8769. 15526. 19114. 20805.
3112	2747. 4866. 18019. 20805.
3113	1657. 2708. 8042. 8058. 8819. 17932. 17948.
3114	2722. 4837. 6616. 12554. 12587. 15548.
3115	1588. 1599. 5532. 8983. 14314. 14388. 16342.
3116	4570. 5507. 8000. 20774.
3117	1584. 1600. 5533. 14315. 14389.
3118	14501. 14526.
3119	14560. 14588.
3120	4879. 8890. 17994.
3121	14423. 14431.
3122	14296. 14411.
3123	8001. 8960. 14297. 14370. 14412. 17956. 20321. 20778.
3124	2740. 6680. 7967. 14345. 16426.
3125	13434. 14480. 14527.
3126	1666*). 8088. 13435. 14481. 14528. 17933.
3127	1667. 14482. 14529. 17934.
3128	5534. 8088. 14316. 14390. 16343.
3129	2723. 2763. 6617. 12588. 15527.
3130	1585. 1601. 1612. 8984.
3131	12555. 13409.
3132	14432.
3133	1647. 1658. 8059. 8820. 19184. 19201.
3134	1676. 4880. 6649. 8770. 8935. 15530. 18020. 19115.
3135	4838. 6618. 8849. 8891. 12556. 13410. 17995. 20806.
3136	1659. 2709. 8043. 8060. 8821. 17949. 19185. 19205.
3137	19205.
3138	1604. 8002. 8024. 8954. 14298. 14371. 17957. 20824. 20848. 21532. 21554.
3139	16469.
3140	5508. 8961. 20322. 20779.
3141	14548. 14561.
3142	1677. 4881. 6650. 8936. 14346. 15531. 18021. 20306.
3143	15528.
3144	16394. 17996.
3145	2724. 8850. 12557. 13411.
3146	14418. 20325. 20342.
3147	14433.
3148	14589. 21555.
3149	2725. 2764. 6619. 12558. 13412. 15546. 17997. 20807.
3150	14483. 14502. 14530.
3151	8892.
3152	9033. 14391.
3153	8937. 19116.
3154	2741. 4867. 4882. 6665. 8771. 14347. 15532. 19117.
3155	1605. 4895. 9039. 20849.
3156	2779. 6681. 7968. 14562. 16427. 17914. 17958.
3157	14633.
3158	1660. 8061. 8089. 13436. 14484. 14531.
3159	14317.
3160	1613. 8025. 8984. 9014. 9034. 14392. 14424. 20780. 20825.
3161	2780. 6682. 7969. 9040. 9079. 14372. 14563. 16405. 16428. 16470 21533.
3162	5509. 8003. 8962. 14299. 16344. 16515. 17959. 19206. 20323. 20326. 20343.
3163	14414.
3164	14590.
3165	1634. 8044. 14434. 14459. 19203.
3166	1648. 8822. 19186.
3167	1668. 2710. 8062. 8090. 13437. 14485. 14503. 17935. 20883.
3168	14425
3169	1669. 8091. 13438. 14486. 14504. 17936.
3170	18022.
3171	1614. 5535. 14318. 20850.
3172	6683. 9041. 16429. 16471. 16496.
3173	17998.
3174	14393.
3175	1615. 5536. 8026. 8986. 9035. 14319. 17915. 20781. 20826. 20851.
3176	14415.
3177	14564.
3178	1616. 5537. 8027. 8063. 8987. 9015. 9036. 14320. 17916. 20782. 20827.
3179	5510. 8004. 8963. 16345. 16516. 17960. 20324. 20327.
3180	1649. 14435 19187. 19204.
3181	2748. 4852. 4868. 6643. 15529. 15547. 16395. 16448.
3182	1661. 13439.
3183	1678. 4888. 6651. 8938. 9057. 20307.
3184	1670. 2711. 8092. 8823. 14487. 17937. 20884.
3185	1671. 8824. 14488. 17938.
3186	19207.
3187	2742. 2781. 6666. 6684. 7970. 9042. 9058. 9102. 16497.
3188	2749*). 4853. 16449. 18023. 19208.
3189	1606. 7984. 9080.
3190	14394.
3191	14426.
3192	2765. 8851. 12559.
3193	14427.
3194	1650. 14436.
3195	1617. 5511. 8964. 8988. 14321.
3196	8825. 9016.
3197	2726. 4839. 6620. 8893. 16396.

*) 1656 $\delta - 1^{0}\ 0'\ 3''.6$; 1666 $AR + 10^{s}$; 2749 $\delta + 1'$.

№ des Catalogs.	
3198	8772. 8939.
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3201	4869. 8773.
3202	2743. 4884. 6667. 7971. 9059. 9103.
3203	2750. 6644.
3204	8852.
3205	14437.
3206	14395. 14416.
3207	1662.
3208	1679.
3209	2727. 4840. 8894. 16397.
3210	1619. 8990. 9017. 14428. 14438.
3211	8774.
3212	1608. 2783. 7986.
3213	4854. 4870. 6645.
3214	14505.
3215	1620. 9018. 9038.
3216	2766. 6621. 8852. 8895. 16472. 16498.
3217	1680. 14348. 14373.
3218	1672. 8093. 8826. 17939.
3219	1609. 2784. 7987.
3220	1681. 4885. 6652. 6668. 8940. 9104. 14374.
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3222	6685. 6694. 7972. 9044. 9082. 14565.
3223	1682. 4886. 6653. 6669. 8941. 9105. 16518. 17962.
3224	1651.
3225	14506. 14532.
3226	5513. 8966. 8991.
3227	14429.
3228	14592.
3229	1652. 8827.
3230	4841. 12560. 20344.
3231	6622. 8854. 8896. 12561.
3232	14566. 14593.
3233	1635. 8967. 8992.
3234	1663. 8094.
3235	1673. 8109. 17940.
3236	2751. 4855. 4871. 6646.
3237	1683. 5514.
3238	1610. 2785. 6686. 9045. 14549. 16398. 16406.
3239	767. 2767. 4842. 6623.
3240	6654. 8775. 8942.
3241	9019.
3242	4887. 16519.
3243	1611. 2786. 6687. 14550. 14634. 15533. 16399.
3244	8158. 8855. 8897. 12562. 20345.
3245	2752. 4856. 4872. 6647. 12589. 16499.
3246	6670. 17963.
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3248	2768. 6624.
3249	8045. 8064, 9123. 16430. 20828.
3250	14594. 14650.
3251	1674. 13440. 14460. 14489. 17941.
3252	8005. 8028. 8046. 8065. 9124. 16407. 16431. 16450. 19209. 19252. 20829.
3253	8776. 8943. 20328.
3254	8777. 8944. 20329. 21556.
3255	1684. 8006. 8029. 8047. 8066. 9125. 16432. 16451. 19210. 19253. 20830.
3256	8095. 13454. 20885.
3257	14612. 14651.
3258	19275.
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3261	1621. 9178. 19230. 20832.
3262	13387. 13415. 20346.
3263	1636. 8096. 16473.
3264	13421 13441. 14490. 14507. 14551. 17942.
3265	12525. 12590. 15589.
3266	1685. 7942. 8030. 9126. 16408. 16433. 19276. 20831.
3267	16520. 17999. 20330.
3268	6688. 9158. 14567. 14595. 14613. 16452.
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3271	1622. 9179. 9221. 16400. 19231. 20853.
3272	12545.
3273	19211.
3274	2787. 6695. 14652. 14664. 15534.
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3276	6625. 9083. 9127. 14635. 20783. 20866. 21534. 21557.
3277	6689. 14596. 14614. 16453.
3278	6671. 17964.
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3280	2769. 15548. 16536. 17965
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3285	1686. 9129. 14637. 14654. 20868. 21536.
3286	20886.
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3288	2753. 8203. 12526. 12591. 15590.
3289	1623. 8032. 8049. 16401. 19232.
3290	1637. 8007. 9181. 16434. 19254.
3291	14638. 14655.
3292	8069. 8098. 13455. 16475.
3293	14568. 14665.
3294	20832.
3295	6672. 6701. 8857. 14598. 14616. 17917. 17966.
3296	8008. 9182. 16435. 19277.
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3303	6655. 12527. 12592. 15591. 20348.
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3306	14599. 14617.
3307	1638. 8009. 9183. 19255. 20855.
3308	13423. 13443. 17944.
3309	8033. 9222.
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3315	4889. 8125. 13444. 13511.
3316	1688. 7943. 9131. 16410. 16436.
3317	12563. 12593. 17973.
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3320	2770. 6673. 8859. 15549. 20333.
3321	14600. 14618.
3322	4813. 8099. 13456. 16476.
3323	769. 8160. 10611. 12547 13390. 15592. 16501.
3324	2790. 4896. 9160. 14571. 16454.
3325	2794. 4969. 6627. 14666. 16537. 19212. 21559.
3326	1639. 8034. 9184. 16403. 19256. 20856.
3327	4902. 4916.
3328	12565. 12595. 20350.
3329	14667.
3330	14493. 20888.
3331	1625. 1689. 8010. 9185. 16411. 19234. 20869.
3332	6690. 6697. 14601. 14639. 16455.
3333	8070. 8100. 16477.
3334	8204. 10631.
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3336	10612. 17975.

№ des Catalogs.	
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3338	770. 4917. 8161. 10613. 12548. 16502. 17976. 20374.
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3340	2795. 6628. 14668. 16522. 16538. 19213. 20785. 21537.
3341	4857. 4874. 4890. 8112. 8126. 13425. 14464. 14536. 16369. 16478.
3342	8780. 8860. 8947. 20334.
3343	6691. 6698. 9060. 9085. 14572. 14602. 14640. 16456. 21560.
3344	4844. 8101. 13457. 14439. 19278. 20889.
3345	14669.
3346	13446. 14513.
3347	771. 4903. 8162. 10614. 13391. 16503. 17977.
3348	2771. 6674. 9106. 15550.
3349	4858. 8127.
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3351	2756. 6603. 6657. 10632. 12530. 15568. 15595. 20351. 20375.
3352	16404. 16412.
3353	1690. 7948. 7988. 9047. 9133. 9161. 16438. 16538. 19214. 19257. 20835.
3354	8144. 13426. 14555.
3355	14619. 14641. 15536.
3356	8035. 16413.
3357	6604. 6658. 10633. 12531. 15569. 20376.
3358	4891. 8113. 8145. 14537. 16370. 16479.
3359	1626. 8011. 9186. 9223. 19235. 20857. 20870.
3360	761. 4927. 8205. 10672.
3361	12566. 12570. 12596. 13392. 13418.
3362	13427.
3363	2791. 4897. 6702. 9086. 14573. 14642. 17918. 21561.
3364	1691. 9048. 9162. 14670. 16439. 16540. 19215. 20836.
3365	772. 4904. 8163. 9256. 16504. 17978.
3366	1640. 4845. 8052. 8071. 8102. 13458. 14440. 16480. 19258. 19279.
3367	2796. 7946. 9134. 16457. 20858.
3368	10634. 12532.
3369	14466. 14514.
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3371	14603. 14620. 15537.
3372	1692. 9049. 14671. 16414. 16541. 19216.
3373	4918. 9281. 10615. 13393.
3374	2757. 4928. 6659. 15551. 15570. 15596. 16523. 20352.
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3381	4859. 14539.
3382	4875. 8114. 14467. 14514. 16346. 19280. 20890.
3383	4892. 8146. 13429. 13448. 14540.
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3385	6699. 19259. 20859.
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3387	14575. 14604. 14621. 15588.
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3389	16371.
3390	1627.
3391	14672. 16458.
3392	14469. 14517.
3393	13459. 14441.
3394	4860. 13430. 13449.
3395	2758. 4929. 6605. 6660. 12534. 15571. 20353.
3396	8036. 9224. 20871.
3397	1628. 6700. 7948. 7990. 9136. 16441. 19236. 20860.
3398	762. 4906. 8165. 9257. 10617. 10636. 12568. 15597. 16505. 16524. 20378.
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3435	4877. 8117. 8130.
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3442	13462. 14447. 16374.
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3444	12538.
3445	8075. 13463. 14448. 16375. 16485.
3446	2811. 4848. 8106.
3447	8118. 8131. 8148. 20893.
3448	13451. 14472. 14542. 14558.
3449	2775. 4945. 6677. 12618. 18024.
3450	2799. 7952. 9140. 9189. 19262. 20841.
3451	2793. 4901. 9063. 14581. 14610. 14627. 14692. 15542. 15554. 20788. 21566.
3452	19284.
3453	13433. 13452.
3454	4957. 6693. 9109.
3455	14648. 14678.
3456	8998.
3457	10640. 10675. 12539.
3458	12550. 12569. 13419.
3459	14449.
3460	10641. 10676. 12540. 12573.
3461	12600. 13420. 17982. 20380.
3462	14473.
3463	16462.
3464	14611. 14628. 14649. 14693. 15543. 18058. 21567.
3465	6728.
3466	8107. 13464. 13521. 14450.
3467	1695. 4972. 7953. 9166. 16417. 19263. 20357. 20842.
3468	1643. 8013. 8038. 8054. 8076. 8994. 9190. 9226. 19219.

*) 1693 $AR + 1^m$.

№ des Catalogs.		№ des Catalogs.	
3469	773*). 4907. 6746. 8166. 9258. 15599. 16508.	3535	7993. 9054. 14662. 20361.
3470	14543.	3536	13526. 13559.
3471	4932. 6609. 8189. 12574. 12601. 16463.	3537	10683. 12625. 18029. 18093.
3472	8039. 8055. 8955. 9191. 19220. 20874.	3538	2801. 4947. 9068. 14699. 15614. 18059.
3473	6663. 10619. 12551.	3539	10646. 19331.
3474	19239.	3540	8150. 13468. 13476. 13484. 13501. 20897.
3475	8040. 8056. 8996. 9192. 9227. 19221. 20875.	3541	4959. 8209. 9089. 10684. 12626. 18030. 18094.
3476	14657.	3542	4935. 6765. 8169. 8192. 9261. 9286. 10598. 12578. 15577. 15602. 16511. 18004. 20394.
3477	12619.	3543	12610.
3478	4919. 6664. 8167. 9259. 10594. 10620. 12552. 15612. 17983.	3544	2823. 4991. 8081. 19242. 19269.
3479	4933. 8190. 12575. 12602.	3545	14663. 14684.
3480	10642. 12541. 18025.	3546	2814. 6732. 8136.
3481	20381.	3547	15636.
3482	10677.	3548	19286. 21573.
3483	18054.	3549	5543. 8123. 13469. 16549. 20898.
3484	4849. 5539. 8108. 8119. 16546. 20894.	3550	6611. 8210. 9090. 10647.
3485	8014. 8041. 8077. 8997. 18055.	3551	5544. 8124. 13470. 16550. 20899.
3486	14629. 14658. 14679. 14694. 21568.	3552	19227.
3487	1696. 9141. 9167. 19264. 20358. 20864.	3553	10599. 10622. 18005.
3488	8207. 10595.	3554	1700. 20878.
3489	10643. 12606. 18026.	3555	6749. 9262. 9287. 15603. 17987.
3490	12607.	3556	778. 4936. 6766. 8193. 12579. 15578. 16487. 16512. 16561. 19315. 20895.
3491	8132. 13498.	3557	2832. 4974. 9069. 9115. 14685. 18060.
3492	20843. 20876.	3558	18502.
3493	5540. 13465. 13522.	3559	2824. 4908. 4992. 8082. 8999. 9244. 16466. 19243. 19270.
3494	4946. 9064. 9110. 10678. 12620.	3560	1701. 4980. 9149. 20362.
3495	6729. 8149.	3561	18095.
3496	4934. 8208. 9288. 12576. 15575. 16464. 17984. 18002. 20382.	3562	6612. 6781. 8211. 8217. 9091. 12612. 12627. 20386.
3497	14630. 14659. 14680. 14695.	3563	9174. 9199. 9233. 19228.
3498	16509.	3564	2802. 4948. 9070. 10685. 15615. 16526. 18031. 18096.
3499	2800. 4958. 9052. 9065. 9111. 10679. 12621.	3565	4960. 8218. 9092. 12628.
3500	9142. 9168. 9193. 9228. 19222.	3566	6706. 6716. 9150. 19287. 20879. 21574.
3501	14631. 14660. 14681. 14696.	3567	18006.
3502	9053. 9066. 9112. 10680. 12622.	3568	13471. 13477. 13540.
3503	9143. 9169. 9194. 9229. 19223. 19265. 21569.	3569	10623. 18007.
3504	6730. 8133. 13499. 20895.	3570	6613. 8194. 10648. 20396.
3505	8015. 8078. 8998. 18056.	3571	2815. 6733. 8151.
3506	9144. 9170. 9195. 19224. 19266.	3572	15555.
3507	2812. 13466. 13482.	3573	764. 4937. 6767. 8170. 12580. 16488. 16513. 16562.
3508	1697. 9145. 16558. 20359.	3574	2825. 4909. 4993. 8083. 9000. 9245. 15556. 16467. 19244. 19271.
3509	5541. 8120. 13475. 13523. 16547.	3575	5545. 13472. 13478. 15637. 16551.
3510	14632.	3576	17988.
3511	6747. 9260. 9284. 10596. 10621. 15600.	3577	13503.
3512	6704. 9146. 9171. 9230. 19267. 21570.	3578	13485. 13527.
3513	14682. 14697.	3579	6750. 8171. 9288. 10624. 17989.
3514	20844. 20865.	3580	1702. 6717. 9151. 9200. 9234. 16468. 19229. 19288. 20363.
3515	13524.	3581	779. 4921. 9263. 10600. 15579. 15604. 19316.
3516	18027.	3582	2833. 4975. 9116. 9175. 10693. 14686. 18061. 18097.
3517	6731. 8134. 13500.	3583	10649. 18032.
3518	10644. 12577. 16465. 17985. 20383.	3584	13473. 13528. 13541.
3519	9113. 10681. 18057. 18092.	3585	18008.
3520	2821. 6714. 8079. 13558. 19240. 19285.	3586	13529. 13542.
3521	13483.	3587	4922. 8172. 9264. 10601. 15580. 15605. 19317.
3522	12608. 12623.	3588	12629. 14700. 15616.
3523	2813. 8121. 8135. 13467. 20896.	3589	5546. 9246. 13479. 13486. 13573. 16552. 19245.
3524	6610. 6764. 8191. 10645. 10682. 15643. 18028. 15576.	3590	19289. 19295.
3525	1698*). 9196. 14661. 14683. 15634. 16559. 19225. 20360. 20845.	3591	6614. 6768. 8195. 9289. 20887. 20897.
3526	4973. 7992. 9067. 9114. 14698. 18058.	3592	10650. 12613. 18033.
3527	21571.	3593	765. 4938. 12581. 16489. 16514. 16563.
3528	4978. 6705. 9147. 9172. 9187. 9231. 19226. 19268. 20877.	3594	15638.
3529	12624.	3595	2816. 6734. 13504.
3530	2822. 6715. 8080. 13525. 19241.	3596	13474. 13530.
3531	16510. 20384.	3597	14687. 19332.
3532	4920. 6748. 8168. 9285. 10957. 15601. 16486. 17986. 18003. 19314. 20385. 20393.	3598	8137. 8152. 20900.
3533	5542. 8122. 15635. 16548.	3599	18009.
3534	1699. 4979. 4990. 9148. 9173. 9198. 9232. 16560. 21572.		

*) 773 *AR*+40ˢ; 1698 δ—10″.

№ des Catalogs.	
3600	2803. 4949. 4961. 6782. 9071. 9093. 9117. 10658. 10686. 12630. 14701. 15617. 16527. 18039. 18062. 20919.
3601	780. 15581. 20388.
3602	4981. 6707. 9152. 9201. 9235. 19290. 19296.
3603	2817 6735. 13505. 20901.
3604	2826. 4910. 4994. 6718. 8084. 15557: 16553. 16564. 18077. 19246. 19272.
3605	2827. 4911. 4995. 6719. 8085. 15558. 16554. 18078. 19247. 19273.
3606	2818. 6736. 8138. 8158. 13506. 20902.
3607	13543.
3608	2804. 4950 4962. 6788. 8219. 9072. 9094. 9118. 10659. 10687. 12631. 14702. 15618. 16528. 18034. 18098. 19333. 20903. 20920.
3609	4923. 6751. 9265*). 9290. 10602. 15606. 17990. 19318.
3610	2805. 4951. 4963. 6784. 8220. 8254. 9073. 9095. 10660. 10688. 12632. 14703. 15619. 16529. 18035. 18063. 18099. 19334. 20904.
3611	16418. 16443. 16490.
3612	10694. 14688.
3613	10661. 10689. 12633. 14704. 16530. 18036. 18040. 18064. 18100.
3614	4939. 6769. 8177. 8196. 10651. 12614. 18010. 20389. 20398.
3615	13508.
3616	10708. 14689. 20364. 20880.
3617	9266. 9291. 10625. 17991. 19319.
3618	4982. 6708. 9153. 18079. 19248. 19274. 19297.
3619	1735*). 6737. 6752. 8154. 16419. 16444. 16491. 16565. 16579.
3620	9202. 9236. 14690.
3621	781. 4940. 8178. 8197. 8212. 10652. 12615. 15582. 20399
3622	8139. 16420. 16445. 16492. 16566.
3623	6720. 9247. 13560. 15639. 19291.
3624	8255. 9055. 9074. 9096. 10695. 18101. 20921.
3625	8256. 9056. 9097. 10696. 20922.
3626	4983. 6709. 9154. 9203. 9237. 10709. 18080. 19249. 20881.
3627	15559.
3628	13480. 13487. 16555.
3629	2884. 4976. 6818. 8221. 20905.
3630	13531. 13544.
3631	2806. 4952. 4964. 6785. 10690. 15620. 19335.
3632	19292. 19298.
3633	4996. 6721. 9248. 13561. 16556. 19293. 19299.
3634	10653. 17992. 18011.
3635	4984. 6710. 9119. 9155. 9177. 9204. 9238. 10710. 10722. 19250. 20365. 20882. 20942.
3636	766. 4941. 6770. 8213. 12582. 20390.
3637	15560.
3638	10654. 10662. 18037.
3639	14710. 18065. 18102. 20923.
3640	8173*). 10655. 10663. 18012. 18038.
3641	10603. 19320.
3642	12634. 14705. 15621.
3643	774. 4924. 6753. 9267. 10626. 10664. 15583. 15607. 18013.
3644	782. 8179. 8198. 12583. 20400.
3645	2819. 6738. 8140. 8155. 13509. 16421. 16446. 21588.
3646	2835. 6819. 9075. 9098. 16531. 18041.
3647	4942. 6771. 8214. 20391.
3648	17993.
3649	20392.
3650	13562. 13574. 15561.
3651	2820. 6739. 8141. 8156. 13510. 21589.
3652	8240. 9292. 12584.
3653	12616.
3654	13488
3655	5547. 9249. 13481. 13545. 15640. 16557. 16580. 21597.
3656	1736. 8142. 16567. 16581.
3657	10711. 10722. 18103. 20366.
3658	13532. 13546.
3659	14706. 14711. 20924.
3660	2807. 4965. 6786. 9099. 9120. 12634. 15622. 16532. 18066. 18081.
3661	10604. 10627.
3662	12585.
3663	13563. 13575. 15562.
3664	10605. 10628. 21611.
3665	4925. 6754. 10606. 10629. 21612.
3666	783. 9268. 10656. 10665. 10691. 16493. 19321.
3667	10712. 18042. 19251.
3668	18014.
3669	4966. 6787. 8215. 8222. 19336.
3670	19294.
3671	19300.
3672	9100. 9121. 12636. 18082.
3673	1. 8175. 9269. 10657. 10692. 16494. 19322.
3674	4985. 6711. 9156. 9205. 9239. 15623. 15641.
3675	4953. 6788.
3676	13489. 13533. 15584. 15608.
3677	10630. 10666.
3678	1709*). 8157. 13511. 16422. 16447. 21590.
3679	4943. 6772. 8199. 9293. 12617. 20401. 20906.
3680	4926 6755. 8176. 9270. 10608. 16495.
3681	4133. 4986. 6712. 9157. 9206. 9240. 19301. 21598.
3682	13534. 13547.
3683	4954. 6789. 6798. 8180. 8216. 10667. 19337.
3684	2836. 4977. 6820. 10697. 10718. 10723. 14712. 14724. 18104.
3685	2808. 4967. 8257. 9122. 12637. 18083.
3686	4153. 6722. 9250. 13576. 16533. 16568.
3687	826. 8200. 20907. 20912.
3688	1710. 2842. 6740. 13512. 21591.
3689	10714. 14718. 14725.
3690	18043.
3691	4134. 4997. 6713. 15563. 15642. 19302. 21599.
3692	776. 784. 788. 9271. 20409.
3693	20943.
3694	6821. 8241. 9241. 10724. 20925.
3695	2. 9272. 20410.
3696	8231. 8258. 12638. 14708.
3697	1711. 6741. 13513. 15585. 21592.
3698	4135. 4987. 10725. 20367.
3699	4116. 6822. 10715. 18044. 18105.
3700	15609. 15624. 19303.
3701	23. 6773.
3702	4117. 6823. 10698. 10716. 14714. 14726. 18045. 18067. 18084. 18106.
3703	10609.
3704	20944.
3705	20913.
3706	13490.
3707	4136. 4988. 9242. 10726. 20368.
3708	3. 777. 785. 789. 6756. 9273. 19323.
3709	5548. 15586. 15643.
3710	4154. 6723. 9251. 13564. 16534. 16569.
3711	6742. 13535. 13548.
3712	9101.
3713	14727.
3714	1742. 4998. 10741. 15610. 15625. 19304. 21600.
3715	52. 808. 827. 4955. 6790. 8181. 8223. 9294. 16582. 19338. 20402. 20908. 21615.
3716	13549.
3717	8182. 8224. 9295. 16583. 19339. 20909. 20914. 21616.
3718	1703. 5549. 15587. 15644. 21593.
3719	4968. 14708. 14715. 20926.
3720	2837. 4137. 4989. 9243. 18107.

*) 9265 $AR+30^s$; 1735 $AR-10^s$; 8173 $AR-10^s$; 1709 $\delta+1'$;

№ des Catalogs.	
3721	13491.
3722	4118. 10727. 15564. 18046. 18068. 20369.
3723	13492. 13514. 20945.
3724	13493. 13515. 20946.
3725	1723. 4155. 4912. 6724. 9252. 13565. 16535. 16570.
3726	13577. 15611. 15626. 19305.
3727	1743.
3728	13578.
3729	12653. 13536. 13550. 15588. 21601.
3730	6725.
3731	13566. 13588. 15645.
3732	1737. 13494. 13516. 13551. 20947.
3733	4102. 6824. 8232. 8259. 10699. 10717. 14716. 18069. 18085. 18108. 18117.
3734	2843. 5550.
3735	1704. 13567.
3736	4096. 6743.
3737	14728.
3738	2838. 4103. 10728. 14717. 15627.
3739	13552. 13579.
3740	4119*). 15565.
3741	6804. 8242. 8260. 10668. 10700. 14709. 18047. 19340. 20927.
3742	13537.
3743	6757. 9274. 9296. 15653. 19397. 20411.
3744	14729. 18070.
3745	18086.
3746	54. 828. 832. 8183. 8225. 16584. 20915. 21617.
3747	14718.
3748	8261. 10669. 10701. 10718. 18048.
3749	1724. 1744. 4156. 4913. 6726. 9253. 16571. 19306. 21602.
3750	25*). 786. 790. 6774. 19324. 19351. 20403.
3751	798. 809. 6791.
3752	4120. 15628. 18109.
3753	883. 8184. 8226. 16585.
3754	20910.
3755	8.
3756	1712. 5551. 12654. 13495. 13517. 13538. 13553. 13580. 13589. 13612. 15646. 20948.
3757	4. 6758. 9275. 9297. 15654. 19398. 20412.
3758	4157. 6727. 9254. 12639. 21603.
3759	834. 21618.
3760	10719.
3761	6805. 6825. 18118. 19341.
3762	1732.
3763	14719. 14730. 18087.
3764	14731.
3765	2839. 4104. 10729. 15566. 18110. 20370. 20928.
3766	4158. 9255. 12640. 21604.
3767	13518. 13539. 13554. 13581.
3768	13496. 13519. 13555. 13582.
3769	856. 2857. 6799.
3770	1745. 4138*). 10742. 18049. 18071.
3771	873. 6826. 10670. 10702.
3772	5552. 12655. 13497. 13557. 13568. 13583. 13590. 13613.
3773	26. 791. 810. 6775. 19352. 20404.
3774	2844.
3775	18088.
3776	9. 6759. 9276. 9298. 15655. 19325. 19399.
3777	20413.
3778	20911.
3779	1725. 4914. 12641. 19307. 21605.
3780	1739. 2845. 20949.
3781	5. 6776. 19353.
3782	1705. 1713. 5553. 13520. 13591. 13614. 15647. 21594.
3783	4105. 4121. 10730. 15567. 18111. 20371. 20929.
3784	4139. 10743. 16572. 18050. 18072.
3785	15629.
3786	19308.
3787	6760. 9277. 15656. 19326.
3788	811. 6792. 8185. 16586. 20405. 21619.
3789	857. 2858. 2870. 6806. 6827. 8262. 16592. 18119. 19342.
3790	14720. 14732.
3791	1740. 2846. 12642. 12656. 13569. 13584. 15648. 20950 21606.
3792	13570. 13585. 20951.
3793	8263. 10671. 15630.
3794	874. 6807. 6828. 8233. 10703. 16573.
3795	2847. 4203. 12657.
3796	4122. 18089.
3797	18073.
3798	16593.
3799	6. 792. 6777. 9299. 19400. 20414.
3800	4106. 4123. 18090.
3801	4140. 10744. 10759. 18051.
3802	10. 6761. 9278. 15657. 19354.
3803	2840*). 10720. 10731. 14721. 18112. 20930.
3804	20916.
3805	19327.
3806	858. 2871. 6800. 6808. 8264. 16594. 19343.
3807	55. 799. 812. 835. 8201. 8243. 16587. 21620.
3808	875. 6829. 10704. 16574. 18120.
3809	6793. 8186. 20406.
3810	4097. 5554. 12643. 13592. 13615. 21607.
3811	56. 813. 836. 6794. 8187. 8202. 8227. 8234. 9300. 16588. 16628. 19401. 21621.
3812	15649.
3813	793. 6762. 6778. 9279. 15658. 19328. 19355.
3814	15631. 21575.
3815	13571. 20952. 20955.
3816	6744.
3817	814. 6795. 9301. 19402. 20415. 20917.
3818	2859. 2872. 4107. 8265. 10705. 14733. 16595. 18074. 19309. 20931.
3819	13586.
3820	4124. 10732. 14722. 18091.
3821	14734. 18113. 18121.
3822	2873. 6809. 10706. 14739. 15632. 18114. 18122. 19344. 20932. 21576.
3823	794. 6779. 9280. 15659. 19329.
3824	10707.
3825	1726. 4185. 4204. 4222. 5556. 13593. 13616. 15650. 16575. 21595.
3826	1706. 1714. 4098. 5555. 12644. 12665. 21608.
3827	16589. 16629. 19403. 20918.
3828	2828. 4141. 10745. 10760. 18052. 20953. 20957.
3829	12645. 12666. 21609.
3830	4108. 14723. 14740. 19310. 21577.
3831	57. 837. 9302. 19356. 20407. 21622.
3832	13587.
3833	4186. 4205. 13594. 13617.
3834	18115.
3835	815. 8188. 8228. 9303. 15660. 16590. 16630. 19404. 20416.
3836	13572. 20958.
3837	2848. 6748.
3838	4228. 5557. 15651.
3839	5558. 15652.
3840	16576.
3841	925. 2841*). 10733.
3842	20954.
3843	876. 6810. 15633. 19312. 19345. 19357.
3844	16662. 21596.
3845	859. 6801. 8235. 16596. 16692. 19346. 19358.
3846	20408.
3847	860. 2875. 6811. 21623.
3848	4125. 5006. 10734. 20933.
3849	795. 6763. 6780. 19330.
3850	1741. 4159. 4206. 12646. 12658. 21610.

*) 4119 $\delta - 1'$; 25 $\delta - 10''$; 4138 $\delta + 1'$; 2840 $AR + 10^s$; 2841 $\delta + 1'$.

№ des Catalogs.	
3851	18116.
3852	20417.
3853	2829. 4142. 10746. 10761. 18075.
3854	4143. 10747. 10762. 18076.
3855	2860. 4109. 5021. 6830 8244. 21578.
3856	6802. 8236. 8266. 16577. 16631. 16698. 19313. 19347.
3857	1707. 1715. 12667. 16663.
3858	800. 838. 2887. 6796. 8229. 19405.
3859	1708. 1716. 1717. 4099. 12668. 16664.
3860	2849. 9207.
3861	916. 4126. 5007. 10735.
3862	816. 839. 6797.
3863	27.
3864	58. 840.
3865	877. 6812.
3866	887*). 4110. 5022. 8245. 16694.
3867	19359.
3868	2861. 5023. 10763. 16665. 16695. 21579.
3869	1727. 2851. 16605.
3870	10736. 10748. 16666. 21580.
3871	796. 861. 6813. 8267. 16632.
3872	797. 851*). 862. 2876. 2888. 2899. 6802. 6814. 8230. 8268. 15665. 16578. 16633.
3873	917. 4127*). 10737.
3874	878. 8237.
3875	19360. 19373.
3876	888. 902. 2830. 4111. 5024. 6815. 6831. 8246. 10738. 10764. 14736. 18123.
3877	879. 5008. 8238. 16634.
3878	29*). 42. 18160. 19348.
3879	4100. 20934.
3880	1718. 2850. 4144. 16606.
3881	889. 903. 5025. 6816. 8247. 10739. 14737. 16635. 16667. 18124.
3882	890. 904. 5026. 6817. 8248. 10740. 14738. 14741. 16636. 16668. 18125.
3883	1746. 4999. 19406.
3884	19407.
3885	841. 20418.
3886	852. 863. 2900. 8269.
3887	1729.
3888	15666. 18161. 18187.
3889	19408.
3890	20959.
3891	16696.
3892	12669.
3893	4101. 9208. 12670. 20935.
3894	8239*) 16637.
3895	1747. 18162.
3896	1730.
3897	1719. 4145. 16607.
3898	30. 19374.
3899	19361. 19375.
3900	43. 817. 842. 15667. 20419.
3901	880. 8270. 16638.
3902	919. 16669.
3903	10749. 18126.
3904	926.
3905	8249.
3906	864. 16697.
3907	12699.
3908	4146.
3909	905. 10750. 10765. 16670.
3910	891. 10751. 10766. 16671. 18127.
3911	21581.
3912	1731. 4246. 5559. 12700. 16591.
3913	4224. 21582.
3914	1748. 4187. 5000. 19376. 19422.
3915	44. 2877. 15668. 20420.
3916	2852. 4112. 4128. 6908. 16597. 20936.
3917	19409. 21624.
3918	2862. 2889. 4160. 4170. 5009. 5027. 15661. 15703. 18163. 18188. 18209. 19349. 19410. 21626.
3919	16639.
3920	2890. 4161. 4171. 5010. 5028. 15662. 18189. 18210. 19350. 19411. 21626.
3921	32.
3922	865. 881. 16698.
3923	9209. 12659. 12682*).
3924	16608.
3925	16640.
3926	2831. 14769.
3927	45. 818. 843. 2878. 15669. 20421.
3928	853. 6840. 8271. 16641.
3929	21583.
3930	4162. 4172. 4188. 4225. 19377. 19423.
3931	941. 6928. 12647. 14742. 20960.
3932	942. 4261. 6929. 12648. 14743. 20961.
3933	6871.
3934	6909. 6946. 9210. 12683.
3935	14753. 14770.
3936	854. 8272. 16642. 16699. 21638.
3937	1749. 4163. 4226. 5001. 15704. 18190. 19362. 19424. 21627.
3938	33. 4207. 19440.
3939	1720. 4147. 12715. 16609.
3940	4164. 4227. 5011. 15705. 19378. 19412. 21628.
3941	18211.
3942	21584.
3943	12701. 12716.
3944	894. 906. 920. 6853. 10752. 16672. 18128.
3945	20962.
3946	927. 933. 6872. 10767.
3947	866. 882. 8250. 8273. 16643. 16700. 21639.
3948	12671. 12684.
3949	949. 954. 2853. 6910. 6947. 9211. 12672. 12675. 12685. 13618. 16598.
3950	11. 4228. 15663. 18137. 18191. 19363. 19425. 21629.
3951	2854. 4113. 12660. 12676. 20937.
3952	1732. 4148. 4247. 12702. 16610.
3953	12. 1750. 2863. 2891. 4165. 5002. 5012. 5029. 18212. 19379. 19413. 21630.
3954	4114. 6948. 12661*). 12742. 20938.
3955	943. 6891. 9212. 12649. 20963.
3956	19441.
3957	34.
3958	819. 15687.
3959	4129. 12686. 13600. 13619.
3960	16644. 21640.
3961	12673.
3962	1733. 4149. 4248. 12703. 16599.
3963	2864.
3964	14754. 14771. 21585.
3965	14744.
3966	820. 2901.
3967	867. 2912. 6841. 16645. 16701. 21641.
3968	18138.
3969	12717.
3970	46. 844. 2879. 15664. 15670. 15706.
3971	950. 6892. 6911. 9213. 12674. 21680.
3972	21586.
3973	47. 845. 2880. 15671. 15707.
3974	893. 907. 921. 6854. 10753. 16674. 16720. 16779. 18129.
3975	12743. 13601. 13620.
3976	35. 4208. 19442.
3977	1751. 4189. 4229. 5013. 5050. 18139. 18192. 18213. 19364. 19380. 19414. 19426. 21631.
3978	18193. 18214. 19365. 19381. 19415. 21632.
3979	2855. 4150. 12718. 16600.
3980	12704.

*) 887 δ+3'; 851 AR+3m; 4127 δ−1'; 29 δ−10''; 8239 AR−30s; 12682 δ+10'; 12661 AR+1m.

№ des Catalogs.		№ des Catalogs.	
3981	4190. 4230. 5014. 18140. 18194. 18215. 19366. 19416. 19427. 21633.	4044	2869. 19386.
3982	13. 4191. 4231. 18141. 18195. 18216. 19367. 19382. 19417. 19428. 21634.	4045	6895. 12690.
3983	894. 6842. 6855. 10754. 16702. 16721. 18130.	4046	6847. 6859. 6875. 14758.
3984	2865.	4047	898. 910. 929. 10758. 14793. 16783. 18133. 21652.
3985	4130. 20939.	4048	4211. 5016. 19421. 19431. 19446.
3986	36. 2866. 2892.	4049	961. 4115. 6951. 12663. 12678. 12746. 13597.
3987	934. 944. 6930. 9214. 12650. 20964	4050	16*).
3988	821. 2902. 5571. 15688.	4051	911. 6848. 6876. 14759. 14777. 21653
3989	21665. 21681.	4052	972. 4152. 4250. 5565. 12708.
3990	1734. 4151. 4249. 5563. 12705. 12719. 16601.	4053	912. 6849. 6877. 14760. 14778. 21654.
3991	822. 846. 2881. 5572. 15689.	4054	968. 1722. 5562. 12724. 13628. 16604. 20941.
3992	868. 6843. 16703.	4055	870. 885. 21646.
3993	847*). 2903. 5573. 19418. 19498.	4056	6915. 6934. 9217. 21686.
3994	12720.	4057	4132. 6952. 12664. 12679. 12747. 13598. 13625.
3995	19368.	4058	40. 4212. 5017. 18145. 18173. 18198. 18221.
3996	955. 6912. 13604. 21682.	4059	930. 938. 946. 4309. 6878.
3997	6931. 12662. 12677. 12687. 13595. 21683.	4060	50. 18222.
3998	19383.	4061	12725. 13629.
3999	883. 6844. 16646. 19475. 21642.	4062	12691. 12748. 13608. 13626.
4000	14755. 14772. 16704. 16722.	4063	15712.
4001	846. 908. 922. 5590. 10755. 16675. 21587.	4064	19387. 19432.
4002	855. 6845. 8251. 16647. 19476 21643.	4065	51. 809. 825. 831. 850.
4003	928. 6873. 10768. 14745. 21649.	4066	899. 913. 924. 6850. 6860. 14761. 19478. 21655.
4004	935. 4263. 6893. 21666.	4067	41.
4005	37. 48. 801. 2867. 2882. 15672. 15690. 15708. 18142. 18217.	4068	17.
4006	1752. 4192. 5003. 19419. 19429.	4069	12726.
4007	49. 802. 2883. 2893. 4173. 4209. 5015. 15673. 15691. 15709. 18143. 18196. 19443.	4070	12692. 13599. 13609.
4008	12721.	4071	952. 4310. 6896. 9218. 21669.
4009	2913. 8252.	4072	5005.
4010	5574*) 21635.	4073	871. 886. 5591. 6838. 18134. 18239. 21647.
4011	12688. 13605. 13622. 21684.	4074	962.
4012	19384.	4075	14748.
4013	848. 19369.	4076	13627.
4014	12706.	4077	947. 6935. 9219. 12652. 21687.
4015	14773.	4078	12727. 13630.
4016	951. 6894. 9215. 12651. 12744. 20965.	4079	981. 1797. 4232. 6879. 21656.
4017	38. 803. 823. 849. 2868. 15692. 15710. 18218. 19370.	4080	872. 1756. 2886. 2915. 5577. 6839. 15695. 18223. 18240.
4018	869. 6856.	4081	900. 914. 6851. 14808. 18135.
4019	936. 945. 6874. 21650. 21667.	4082	14762. 14779.
4020	14746.	4083	2895. 4193. 18146. 18174. 19388. 19447.
4021	884. 2914. 6846. 8253. 16648. 19477. 21644.	4084	939. 4311. 9220. 14749.
4022	10769. 14756. 14774. 16676. 16705. 16723. 16780.	4085	21648.
4023	12707. 12722.	4086	901*). 6861. 14794. 14809. 14849. 16679. 19479.
4024	896. 909. 6857. 10770. 14757. 14775. 16677. 16706. 16724. 16781.	4087	973. 4278. 5566. 12771. 12785. 21699.
4025	966. 5560. 5564. 6949. 16602. 16611.	4088	963. 6953. 12693. 12728. 13631. 21746.
4026	10756. 18131.	4089	958. 4265. 6915. 12749.
4027	956. 4131. 6913. 6932. 12689. 13596. 13606. 13623. 20940. 21685.	4090	16725.
4028	14747.	4091	15676. 18224. 20422.
4029	960. 967. 971. 1721. 5561. 6950. 12745. 16603.	4092	969. 4279. 12754. 21700.
4030	937. 4264 9216. 16649. 21668.	4093	940. 1807. 6880. 16708. 16826. 21657.
4031	39. 2884. 2894. 4210. 18171. 18219. 18237. 19444.	4094	14763.
4032	957. 2856. 6933. 13607. 13624.	4095	18. 15713. 18199.
4033	2885. 18172. 18197. 18220. 18238.	4096	1757. 1769. 2933. 15677. 15696. 16612. 18225. 19433. 20423.
4034	15. 5004. 18144. 19420.	4097	1786. 4194. 6862. 14764. 14780. 14795. 16680. 19480.
4035	804. 829. 2904. 5575. 15674. 19499. 21636.	4098	12729. 13610. 21747.
4036	19371.	4099	1758. 1770. 2934. 15678. 15697. 16613. 18226. 19434. 19456. 20424.
4037	805. 824. 830. 2905. 5576. 15675. 15693. 19372. 19500. 21637.	4100	915. 1798. 6852. 14878. 16784. 18136.
4038	19385.	4101	20966.
4039	897. 923. 6858. 10757. 14776. 16678. 16707. 16782. 18132 21651.	4102	953. 4251. 6916. 12680.
4040	19430. 19445.	4103	948. 4233. 6897. 16650. 21670.
4041	21645.	4104	1838. 12755. 12786.
4042	12723.	4105	1850*) 2396. 5018. 10792. 16787. 18147. 18164. 18175. 19389. 19448.
4043	806. 2906. 15694. 15711. 19501.	4106	932. 4213. 6881. 16827.
		4107	19. 18200.
		4108	16681. 16726. 18241.
		4109	21658.
		4110	964. 1831. 4266. 6936. 12694. 16709. 21721.

*) 847 *AR*—1^m; 5574 *AR*—1^s; 16 *AR*+1^m; 901 *AR*—10^s; 1850 δ—10″.

№ des Catalogs.	
4111	1777. 4166. 4174. 4291. 5592. 15698. 16682. 16727. 18242.
4112	1851. 2897. 2923. 5019. 10793. 16738. 18148. 18165. 18176.
4113	970. 974. 4280. 5567. 12756. 12787. 21701.
4114	1813. 21671. 21688.
4115	5578. 16891. 20425. 20432.
4116	1759. 1771. 2935. 15679. 16614. 16785. 18227. 19435.
4117	4234. 6898. 14751. 16651.
4118	20. 18201.
4119	959. 965. 4267. 6937. 6954. 12695. 12730. 13611. 13632. 16710. 20967. 21748.
4120	1808. 4214. 4312. 5609. 6882. 16828. 18253. 19502.
4121	21672. 21689.
4122	1852. 2898. 2924. 5020. 10794. 16739. 18149. 18166.
4123	14781.
4124	2949. 5579. 15714. 16892. 19457. 20426.
4125	21722.
4126	16728.
4127	4235. 6899.
4128	1821. 4252. 6917. 12681.
4129	1839. 12757. 12772.
4130	21. 975. 2907. 10795. 18177. 18202.
4131	1787. 1799. 4195. 5601. 5620. 10771. 14782. 14796. 14810. 14850. 19481. 21659.
4132	12696. 12731. 12750. 21702. 21723. 21749.
4133	1814. 4236. 6900. 14752. 14879. 16652. 21673. 21693.
4134	16615. 18228.
4135	14765.
4136	1760. 1863. 2936. 13635. 15680. 19449.
4137	1853. 5044. 16740. 19436.
4138	16683. 16729.
4139	14783.
4140	16711. 16829. 21713.
4141	1772. 4167. 4175. 5593. 6863. 15699. 15721. 16786. 16893. 18243.
4142	1822. 4237. 4253. 6918. 21691.
4143	5594. 6864. 16684. 16787. 16894. 18244.
4144	20968.
4145	22. 5031. 18150. 18178. 18203.
4146	12788. 12795. 12823.
4147	1879. 2950. 19458. 20427.
4148	4215. 4313. 5610. 6883. 19503.
4149	12758. 12796.
4150	12697. 12732. 21724. 21750.
4151	1030. 1761. 2937. 13636. 15681. 15700. 18229. 19450. 20433.
4152	1832. 1840. 4272. 6938. 12751. 13633. 16712. 21703. 21714.
4153	1841. 4273. 6919. 6939. 12752. 13634. 16713. 21704. 21715.
4154	1788. 4196. 10772. 14821. 15715. 19482. 21660.
4155	1778. 4292. 5595.
4156	1854. 2908. 2925. 10796. 16741. 18151. 18167. 18179. 19390.
4157	1864. 1880. 16616. 16788.
4158	2938. 15682. 16617. 16789.
4159	20428.
4160	14784.
4161	6865. 14766. 14851. 16685. 18245.
4162	1815. 4238. 6901. 14880. 19515. 21674.
4163	21751.
4164	12709. 12733. 12759. 12789. 20969. 21725.
4165	4314. 6884. 16830. 19504. 21692.
4166	1809 4216. 4315. 5611. 6885. 16831. 18254. 21693.
4167	1773. 4168. 4176. 5596. 15701. 15722. 16730. 16813.
4168	976. 2909. 5032. 10797. 18152. 18168. 18204. 19391. 19437.
4169	12773.
4170	1881. 2939. 13637. 15683. 16618. 16790. 16895. 20434.
4171	12797.
4172	1823. 4268. 6920. 12698. 12753. 16714. 19516.
4173	19451.
4174	12824.
4175	1779*). 1789*). 4293. 6866. 10773. 14767. 14785. 16685. 18246. 19483.
4176	1800*). 14811. 14822. 16653.
4177	14798. 21661. 21694.
4178	4217. 5612. 14799. 21662. 21695.
4179	1855. 1865. 2926. 5045. 10798. 16742. 18180.
4180	4294. 10774. 19484.
4181	12734. 12790.
4182	1856. 1882. 5046. 10799. 18181.
4183	5580. 16896.
4184	1842. 4281. 5568. 12774. 12825. 15736. 15751. 21705. 21716.
4185	1900. 10820. 18230. 18263.
4186	2910. 5033. 18153. 19438. 19452. 20429.
4187	1790. 4197. 5602. 14768. 15716.
4188	1833. 12710. 12760. 12791. 20970. 21726. 21752.
4189	1824. 4269. 6921. 19517.
4190	19392. 19459.
4191	12798.
4192	18205. 19393. 19460.
4193	1031. 2940. 2951. 16619.
4194	1762. 1866. 13638. 15684. 16791. 20435.
4195	1801. 4316. 6886. 14812. 14881. 16832.
4196	1774. 4177. 5597. 15723. 16814. 18247.
4197	1791. 5603. 14786. 16654. 16731.
4198	1763. 1867. 2952. 5581. 14852. 16853. 16897. 18231.
4199	10775.
4200	18182.
4201	1843. 4282. 4332. 4349. 5569. 12775. 12792. 12847. 21717.
4202	1834. 6940. 6955. 12711. 12735. 20971. 21727. 21753.
4203	18154. 18206. 19394.
4204	12799. 12826.
4205	1780. 4295. 6867. 16687. 18248.
4206	977. 5034. 19461.
4207	12761. 12793.
4208	1857. 2916. 2927. 10800. 15702*). 15717. 16743. 18169.
4209	18155. 19395. 19439. 19453. 19462.
4210	1018. 1753. 5047. 10801. 14853. 18170. 18183.
4211	1844. 4350. 12762. 12776. 12848. 15752. 16715.
4212	16732.
4213	1816. 4239. 4254. 6902. 16655. 19505.
4214	4351. 12827.
4215	16620.
4216	14823. 19485.
4217	12828. 12849.
4218	1845*). 4283. 4333. 4352. 5570. 12777. 12829. 12850. 15737. 15753. 16716. 21718.
4219	1825. 1835. 4270. 4274. 6941. 12712. 12736. 12872. 19518. 20972. 21706. 21728.
4220	1802. 4317. 5630. 14813. 14824. 19486.
4221	4218. 5613. 14800. 21696.
4222	1764. 2953. 5582. 10821. 10850. 16854. 16898. 18249. 18264. 19454.
4223	1792. 4198. 5604*). 5621. 10776. 14787. 21668.
4224	21675.
4225	1826. 4275. 6942. 12873. 21707.
4226	1817*). 4240. 4255. 16656.
4227	1775. 1858. 4169. 5598. 16792. 16815.
4228	6903. 19506. 21676.
4229	1781. 1901. 4178. 4296. 6868. 15724. 16688. 16833.
4230	16689. 16834.
4231	978. 1019. 2911. 2917. 2928. 5048. 10802. 10860. 15718. 16744. 18156. 18207. 18232.
4232	1883. 5583. 16855. 16899. 20430.
4233	1032. 1868. 2941. 10897. 15685. 18299. 20436.

*) 1779, 1789 $AR - 1^m$; 1800 $\delta - 10''$; 15702 $AR - 20^s$; 1845 $AR + 20^s$; 5604 $AR - 2^m$; 1817 $\delta - 10''$.

№ des Catalogs.	
4234	6922. 6956. 12713. 21754.
4235	10861. 18184. 19396.
4236	13639.
4237	1859. 2954. 19463.
4238	4318. 5622. 5631.
4239	1902. 4179. 15725.
4240	1884. 10930. 16621. 16793. 18250.
4241	10862. 18233.
4242	1846. 4334. 4353. 12763. 12778. 12800. 15754. 16717. 21719.
4243	1803. 5614. 14801.
4244	1818. 4241. 4256. 6904. 16657. 19507. 21677.
4245	1860. 1885. 2966. 5584. 10898. 10931. 15686. 16622. 16794. 16856. 16900. 18251.
4246	1774. 2918. 10803. 13653. 14854. 15719. 18157. 18234.
4247	1793. 4199. 5605. 10777. 14789. 14825. 16733. 16816. 19487.
4248	4335. 4354. 6957. 12764. 12779. 12801.
4249	4336. 4355. 6958. 12765. 12780. 12802. 21720.
4250	21708 dupl. sq.
4251	13670.
4252	10857. 18265.
4253	10863. 18185. 18208.
4254	12737. 12874. 19519. 21729. 21755.
4255	1836. 4242. 4257. 6905. 16658. 21697.
4256	1847. 4284. 4356. 12766. 12781. 12803. 15738. 21709.
4257	4180. 6869. 15726.
4258	1810. 4219. 5615. 19508.
4259	10899. 16623. 16795. 18300. 18330. 18360.
4260	12794. 12851 Dupl. pr.
4261	12830. Dupl. sq.
4262	1827. 6923. 19520. 20973. 21730.
4263	4319. 6887. 16835.
4264	10932. 16745. 18361. 19464.
4265	21678.
4266	20437.
4267	1848. 4285. 4337. 6959. 12767. 16718. 21710.
4268	1782. 4298. 5599. 10961. 16690. 16817.
4269	1794. 4200. 5606. 10778. 16734. 16869.
4270	1755. 2919. 10804. 14855. 18158.
4271	12714. 12738. 12875. 21756.
4272	12739. 12876. 21757.
4273	1005. 1869. 2942. 10933. 16746. 16918. 18252. 18301.
4274	10864. 13654.
4275	14790.
4276	1828. 4258. 6924.
4277	1861. 2967. 3078. 4181. 10822. 10852. 15720. 15727. 18235. 18266. 20431.
4278	1819. 4243. 6906. 21679. 21698.
4279	12852.
4280	996. 1020. 2920. 5049. 13655. 14856.
4281	2955. 5586. 10900. 10934. 16624. 16796. 16857. 18186. 18331. 19465.
4282	14814. 14826.
4283	1783. 4299. 6870. 10962. 16659. 16691. 16870.
4284	16818. 16836.
4285	6943. 12740. 12804. 19521. 21711. 21758.
4286	20974.
4287	1837. 4271. 12805. 16719. 21712. 21731.
4288	5035. 18159.
4289	1765. 16747. 18236. 19455.
4290	2929. 10805. 20438.
4291	6858. 14802. 21664.
4292	1811. 1903. 4220. 4320. 5616. 19509.
4293	12768. 12782. 12831.
4294	4357. 12769. 12783. 12832.
4295	1784. 1862. 1913. 2956. 4182. 5600. 10853. 18267. 18362.
4296	1006. 2951. 5050. 10865.
4297	979. 5036. 13656. 18302.
4298	1033. 2643. 10901. 13641. 16625.
4299	12877.
4300	19466.
4301	1221. 5117. 6889. 14803.
4302	1804. 4800. 5623. 10779. 16837.
4303	1849. 4276. 4286. 4338. 4358. 6960.
4304	5618. 7890. 14804.
4305	1766. 1776. 1870. 1887. 2968. 10935. 15804. 19488.
4306	1795. 1805. 4201. 4301. 5607. 5624. 10780. 14791. 16838.
4307	1767. 1888. 2957. 5587. 10936. 15805. 16748.
4308	1829. 4259. 6925. 6944.
4309	14792.
4310	1768. 2944. 2958.
4311	1820. 2975. 4244. 6907. 16797. 21759.
4312	997. 1889. 2969. 5061. 5588. 14827. 16627.
4313	1830. 6926. 6945.
4314	1785. 3026. 3079. 4183. 16735. 19510.
4315	1052. 1812.
4316	12770. 12784.
4317	1796. 1806. 4202. 5608. 16839.
4318	1034. 3027. 3080. 4184.
4319	980. 1007. 2922. 5037.
4320	1095. 4245. 4260. 6927. 21760.
4321	19467.
4322	16749. 16798.
4323	998. 1904. 1914. 5062. 5589. 19489.
4324	5619 Dupl. pr.
4325	1915. 19490.
4326	2976.
4327	16736.
4328	1021.
4329	16840. 19511.
4330	1890. 2959. 16660.
4331	3054. 4302. 4321.
4332	2970.
4333	981. 4287. 5051. 15806.
4334	1871*). 4368.
4335	1053. 19512.
4336	1916. 3097.
4337	21761. 21771.
4338	1905.
4339	1927. 20471.
4340	16841.
4341	16750. 16799. 16871. 21762. 21772.
4342	1068. 16800.
4343	1069. 16751. 16801. 16872. 21763. 21773.
4344	1087. 2993. 21732
4345	19468. 19491.
4346	19469. 19492.
4347	1022. 1931. 10963.
4348	1035*). 1948. 11013. 16901. 19513. 20472.
4349	1054. 16764.
4350	3056. 3081*). 12853. 19551.
4351	3028. 12806.
4352	10937.
4353	982. 989. 1872. 5052. 10806.
4354	11014.
4355	3082*). 12854. 12917. 19552.
4356	1096. 4339. 12807.
4357	1088. 2994. 21733.
4358	1928. 5641. 11015. 16902.
4359	1873. 10823. 14815. 18268.
4360	2995. 4304. 10781. 20975. 21734.
4361	21764. 21774.
4362	1023. 5642. 10990. 16903. 16919. 18255.
4363	1964. 16752. 16765. 16802. 16819. 16873.
4364	18332. 18363. 19470. 19493.
4365	999. 1008. 1906. 10866. 10903. 16661.
4366	983. 1917. 5053. 5089. 10807. 14816. 15807. 15810. 18303.

1871 *AR*+1°; 1035 δ−3′; 3081 δ+1′; 3082 *AR*−10°.

№ des Catalogs.	
4367	1036. 1932. 1949. 10991. 11016. 19514. 20473.
4368	990. 1874. 10824. 13657. 18269. 18304.
4369	16842.
4370	1089. 2978. 21765. 21805.
4371	984. 991. 1918. 10808. 14817.
4372	1070. 1965. 16858. 16874.
4373	2979. 3029. 21766. 21806.
4374	1000. 1891. 5063. 10867. 18333. 18451.
4375	1122. 3057. 10782. 20976. 21735.
4376	15728.
4377	1062. 5651. 16753. 16766. 16920 var.?
4378	21829. 21875.
4379	1097. 3030. 15789. 19529. 21785.
4380	13658. 13676
4381	16803. 16820. 20455. 20985.
4382	1009. 1907. 10904. 18305. 20439. 20448.
4383	1056. 1966. 14882. 16804. 16821. 20456. 20986.
4384	1950.
4385	10809.
4386	12918.
4387	12833. 12855. 19575
4388	12808.
4389	10938. 20491.
4390	1123. 12834. 12856. 12878. 15755. 15766. 15784. 19530. 19553. 19576.
4391	10868. 10939. 18452. 19471. 19494. 20492.
4392	1041. 18256.
4393	16875. 16904. 20474.
4394	1046. 1967. 5632. 5643. 14900. 16843. 20475. 20505.
4395	10825. 18270. 18306.
4396	18334. 18430.
4397	3058. 12809. 19522.
4398	13659. 13677.
4399	10964. 10992. 14828. 14857 15729. 18364.
4400	1951. 1968. 5633. 5644. 5652. 14901. 16844. 16876. 16905. 20476. 20506.
4401	20972. 21830. 21876.
4402	1875. 4369. 5090. 10854. 15811. 20449.
4403	4322. 4340. 12857. 12879. 12892. 12908. 15756. 15767. 15785. 19531. 19554.
4404	1063. 1071. 16754. 16859.
4405	3083. 4305. 4323. 4341. 12858. 12880. 12893. 12909. 15757. 15768. 15786. 19532. 19555.
4406	1001. 1892. 2960. 5064. 10826. 14818. 18271.
4407	1919.
4408	1014. 1908. 3098. 10905. 10993. 18335 var.?
4409	1024 1037. 1929. 10965. 11017. 14829.
4410	1079. 3031. 21736. 21786. 21807.
4411	1038. 10966. 11018. 14830. 18365.
4412	13660. 13678.
4413	4359. 21767. 21775.
4414	985. 992. 5054. 10810. 13661. 13679. 15808. 20440.
4415	10994. 18431.
4416	18307.
4417	1057. 14883. 16822. 16845.
4418	10940. 18432.
4419	2980. 21768. 21776.
4420	18453.
4421	16767. 16805.
4422	1090. 2981. 4360. 21769. 21777.
4423	1058. 1933. 5625. 5634. 16860. 16906. 16921. 20987.
4424	10906. 10941.
4425	1893. 1920.
4426	10967. 11019. 21014.
4427	10942. 18336. 20493.
4428	11020.
4429	1894. 1921. 4288. 5076. 10811.
4430	19472. 19495.
4431	12810. 12835. 12859. 12881. 19577.
4432	1098. 15740.
4433	1010. 1909. 10943. 18337. 20494.
4434	1099. 15741.
4435	16823. 16922.
4436	12894. 12919.
4437	16877.
4438	1153. 3084. 12811. 12836. 12860. 12882. 19578.
4439	4342. 15769. 19523.
4440	1064. 1969. 16868.
4441	1154. 3085. 12812. 12861. 15758. 15770. 15787. 19524.
4442	4324. 12897. 12921.
4443	986. 18272.
4444	21770.
4445	1015. 3099. 5091. 10944. 18433. 20450.
4446	2930. 2945. 2961. 4289. 4370. 5065. 5077. 10827. 10869. 13643. 13662. 13680. 13700. 15830.
4447	1080. 16755. 16768. 16806.
4448	1133. 4325. 12837. 12898. 12922. 21901.
4449	2931. 2946. 2962. 2982. 4290. 4371. 5066. 5078. 10828. 10855. 10870. 13663. 13681. 13701. 15812. 15831. 20441.
4450	20978.
4451	1042. 5635. 5645. 14902. 16971. 20507.
4452	2947. 2963. 2983. 4372. 5067. 10812. 10829. 10871. 13664 13702. 15813. 15832.
4453	987. 14819. 18273.
4454	1876. 2932. 2948. 2964. 2984. 4373. 5068. 5079. 10813. 10830. 10872. 13644. 13665. 13682. 13703. 15809. 15814. 15833. 20442.
4455	19473. 19496.
4456	1910. 3100. 10907. 10945. 18338. 18454. 20495.
4457	1124. 3059. 4277. 19556. 21787.
4458	3060. 21788.
4459	1072. 16861.
4460	1895. 5056.
4461	21831. 21877.
4462	1025. 1039. 10968. 10995. 15730. 18257. 18366.
4463	1081. 16769.
4464	1047. 1059. 1934. 1952. 5636. 14903. 16824. 16846. 16907. 16923. 20457. 20988.
4465	10788.
4466	1922. 5092. 10946. 20451.
4467	16825. 16847. 16879. 16908. 16924. 20458. 20474. 20989.
4468	5038. 19579. 21832. 21878.
4469	21879.
4470	20979.
4471	4343. 12899. 21902.
4472	12813. 12838.
4473	2996. 21737.
4474	1065. 1970. 5653.
4475	13645.
4476	1091. 3032. 21778.
4477	12839. 12862.
4478	1026 1930. 11021. 15731. 18258. 18339. 18367.
4479	15759. 15771.
4480	12840. 12863.
4481	15788.
4482	2039. 14904.
4483	12814. 12883. 15742.
4484	1100. 1125. 1134. 2985. 2997. 10784. 21738. 21789. 21808.
4485	1011. 1911. 5071. 5093. 10908.
4486	12815. 12884.
4487	19474. 19497.
4488	4326.
4489	6990. 20980.
4490	3061. 19525.
4491	1073. 1981. 14905. 16862. 16880. 20990.
4492	1040. 1935. 10969. 11022. 15732. 18368.
4493	1155. 4327. 12900. 15760. 15772.
4494	15790.
4495	16807.

№ des Catalogs.	
4496	10831. 10878. 18455.
4497	1074. 1982. 2040. 14906. 16863. 16881. 20991.
4498	18309.
4499	1896. 13646. 13666. 18683.
4500	5039. 21833. 21880.
4501	1002. 1016. 1923*). 2971. 3101. 5080. 10909. 18274. 20452.
4502	12864. 21834.
4503	12816.
4504	1003. 1017. 1027. 1924. 2972. 3102. 5081. 5094. 10910. 18275. 20453.
4505	1877. 10947. 20496.
4506	5057*). 20443.
4507	15761.
4508	10996.
4509	1953. 5626. 10970. 14831. 18340.
4510	10814.
4511	1060. 2073. 2998. 3033. 6991. 19533. 19557. 21739. 21779. 21790.
4512	10832. 10874. 18456.
4513	16757. 16770. 16848.
4514	12841. 12865.
4515	10785.
4516	5637. 5654. 16758. 16771. 16849. 16882. 16925.
4517	12817. 12842. 12866.
4518	3062. 3086.
4519	1082. 16808.
4520	135. 18310.
4521	1897. 13667. 13684.
4522	5072. 10971. 10997. 18369.
4523	2986.
4524	14832. 18341.
4525	1101. 1126. 4361. 20982. 21791. 21809. 21903.
4526	10948.
4527	13647. 13668. 20444.
4528	15733.
4529	1983. 6971.
4530	12885. 12901.
4531	1092. 1135. 2999. 3034. 19534. 19558. 21740. 21780. 21904.
4532	12818. 12843. 12867.
4533	1075. 1971. 14907. 16759. 16772. 16883. 16926. 20992.
4534	20508.
4535	12844. 12868.
4536	5638. 14908. 16760. 16773. 16884. 16927.
4537	1105. 10786. 21792. 21835. 21881. 21905.
4538	21836. 21882. 21906.
4539	988. 993. 1898. 5058. 18276.
4540	4328. 15773.
4541	16864. 19535. 19559. 21781.
4542	15743.
4543	1093. 1106. 1136. 3000. 3035. 6992. 10787. 19536. 20983. 21782. 21793. 21837. 21883.
4544	1878. 3110. 10815. 10875. 10911. 18457.
4545	10833. 13648. 13669. 13685. 20445.
4546	1043. 1936. 1954. 5627. 18259.
4547	1083. 1094. 1137. 2987. 21741.
4548	1066. 1984. 5639. 5655. 16774. 16850.
4549	15762.
4550	2041. 2988. 6972. 16865.
4551	18277.
4552	1012. 3103. 20454.
4553	5646. 20497. 20993.
4554	16809.
4555	12923.
4556	5647. 20498. 20509. 20994.
4557	128. 136. 18311.
4558	1899.
4559	3008. 3063. 12845. 12869. 12886.
4560	1084. 21742. 21810. 21838.
4561	1048. 3133. 5648. 5656. 14909. 16928. 20499. 20510. 20995.
4562	18370.
4563	1127. 3087. 5040. 19526.
4564	1985.
4565	10972. 10998. 18371.
4566	3001. 3036. 4362. 6993. 19560. 20984. 21783.
4567	1156. 4306. 4329. 4344. 7003. 12819. 12887. 12902. 12910. 12924. 15774. 15791. 15834.
4568	10816. 10834. 13649. 13670 13686. 18278.
4569	1128. 3088. 5041. 10788. 15856. 19527.
4570	1925. 5082. 5095. 10999. 11023. 18342.
4571	1157. 4307. 4330. 4345. 7004. 12820. 12870. 12888. 12908. 12911. 12925. 15775. 15792. 15835.
4572	2042. 2075. 6973. 16885. 21743. 21811. 21839. 21884.
4573	4308. 4331. 12821. 12871. 12904. 12912. 12926. 15776.
4574	3111*).
4575	1955.
4576	16761. 16775.
4577	2043. 2076. 6974. 16886. 21744. 21812. 21840. 21885.
4578	15734. 15744.
4579	18343.
4580	5073. 10973. 11024.
4581	1102. 1107. 2989*). 19561. 21794.
4582	2044. 2077. 6975. 16887. 21745. 21813. 21886.
4583	1004. 1912. 3112. 10876. 10912. 18458.
4584	994. 10817. 10835. 13650. 13671. 13687. 18279.
4585	16810. 16888.
4586	5059. 5069. 14820. 15815. 20446.
4587	1108. 1138. 3002. 3009. 4363. 6994. 19537. 21784. 21795.
4588	16852. 16867. 16929. 20500.
4589	1044. 2973. 18260. 21015.
4590	1937. 5628. 18261. 21016.
4591	15857.
4592	16868. 16930.
4593	20996.
4594	16762. 16776.
4595	1028. 10974. 18372.
4596	20478.
4597	16763. 16777.
4598	13651. 13672. 13688.
4599	13652. 13673. 13689. 18312. 18344.
4600	1067. 1076. 1972. 1986.
4601	18313. 18345.
4602	3065. 7005. 21907.
4603	1973. 1987.
4604	1013*). 3104. 10913.
4605	137. 10818.
4606	5096.
4607	2990. 3037. 6976. 16811. 16890.
4608	11000.
4609	1129. 1139. 3089. 4346. 12889. 12905. 12913. 14805. 15763.
4610	1103. 1130. 1140. 1158. 3090. 4347. 12890. 12906. 12914. 14806. 15764. 19562.
4611	129. 995. 5074. 10836. 10877. 13889. 18280. 18459. 20447.
4612	2045.
4613	1104. 1131. 1141. 1159. 3091. 4348. 12891. 12907. 12915. 14807. 15765. 19538. 19563.
4614	1956. 15735.
4615	21796.
4616	256*). 1049. 11233. 20511.
4617	16778.
4618	3066. 7006. 12927. 21908.
4619	1045. 1050. 1938. 3003. 5649. 21049.
4620	2078. 3113. 10819. 10878. 15816. 15858.
4621	5629. 11234. 15836. 20501.

*) 1923 $AR+40^s$; 5057 $AR-1^m$; 3111 $AR+1^m$; 2989 $AR-10^s$; 1013 $AR+1^m$; 256 $AR-10^s$.

№ des Catalogs.	
4622	195. 1926. 3105. 5097. 5657. 10914. 10949. 16931.
4623	12822.
4624	138. 18460.
4625	294. 20997.
4626	1085. 2991. 6977. 21814. 21842. 21887.
4627	18373.
4628	1029. 1061. 2974. 5671. 10975. 11001. 11042. 16941.
4629	2120. 10976. 11002. 11025. 11059.
4630	257. 1051. 1939. 3004. 5640. 5660. 18262. 20479.
4631	2121. 2965*). 10977. 11003. 11026. 11060.
4632	21797.
4633	76. 10837. 13674. 13690. 13704. 14833. 14884. 14910. 18281. 18314.
4634	10879.
4635	10838. 13675. 13691. 13705. 14834. 14885. 14911. 18282. 18315.
4636	1109. 3010. 4364. 6995.
4637	5672. 11043. 11235. 16942. 20502.
4638	139.
4639	2046.
4640	11004. 11061. 11139. 11236.
4641	213. 11062. 11140. 11237.
4642	15837.
4643	11005. 11063. 11141. 11238.
4644	5042. 7021. 10789. 12916. 21888.
4645	196. 5658. 15745. 16932.
4646	5659. 15746. 16933.
4647	15777.
4648	10950.
4649	10915.
4650	87. 114. 1988. 2079. 2167. 13890.
4651	77. 101.
4652	11142. 18462.
4653	149. 167. 10916.
4654	2080. 2122. 14858. 14886.
4655	65.
4656	18346.
4657	316. 11271. 21029. 21050.
4658	88. 115. 1989. 2047. 2081. 2123. 5060. 10839. 13692. 13706. 14859. 14887.
4659	274. 6961. 21017.
4660	11044. 11064. 11143. 11239. 20503. 20513.
4661	21843. 21889.
4662	59.
4663	3135. 11045. 18374.
4664	3067. 6978. 21815.
4665	19528.
4666	1132. 3092. 3106. 3114. 7007. 19539. 19564. 19580. 21909.
4667	20998.
4668	3038. 21798.
4669	1957. 18316.
4670	2168. 11027. 11065.
4671	4365. 7022. 19591.
4672	21051.
4673	3093. 3107. 3115. 7036. 12939. 19565. 19581.
4674	4395.
4675	10951.
4676	150. 168. 2124. 5083*). 10880. 10917. 18347.
4677	3116. 7008. 19566.
4678	10790. 21844. 21890.
4679	2992. 3068. 6979.
4680	18283.
4681	1086. 7023. 19592.
4682	258.
4683	130. 140. 151. 2048. 5070. 5084. 10918. 10978. 15859.
4684	295. 317. 3005. 21018. 21030.
4685	78. 102*). 10840. 14835. 14860.
4686	60. 18284.
4687	4366. 6996.
4688	141. 2049. 10881. 10979.

№ des Catalogs	
4689	18375.
4690	3011. 11240. 11272. 21052.
4691	169. 2125.
4692	1990.
4693	110. 1958. 10841. 13693. 13707. 14836. 18317.
4694	3012. 3030. 11241. 11273. 21053.
4695	5043. 21799.
4696	275.
4697	1940. 5673. 11028. 11066. 16943.
4698	89. 14912.
4699	10952.
4700	12940. 19540. 21910.
4701	11144. 11202. 20999. 21019.
4702	3069. 6980. 7024. 19593. 21816.
4703	20504. 20514.
4704	6962. 6997. 11145. 11203.
4705	3070. 6981*). 7025. 19594. 21817.
4706	355. 2169*). 3040. 11242. 11274. 20515. 21031.
4707	296. 3006. 20459.
4708	66. 116. 1991. 2082. 2096. 4396. 4460. 10919. 13891. 14861. 14888. 14958. 14990. 18285. 18348.
4709	11029. 11067. 16944.
4710	67. 90. 117. 1992. 2050. 2083. 2097. 4397. 10882. 10920. 13893. 14862. 14889. 14959. 14991. 15838. 18286. 18318. 18349.
4711	18463.
4712	1959. 2051. 2098. 10842. 13694. 13708. 14913. 15817.
4713	3094. 3117. 7037. 12928. 19567. 19582. 21911.
4714	259. 11092. 20480.
4715	407. 3150*). 15778. 21800.
4716	2084. 2099. 4398. 5106. 10883. 15839.
4717	356. 3013. 11204. 21000. 21032. 21054.
4718	197. 5660. 11030. 16934.
4719	6982.
4720	3042. 7026. 13004. 19595. 21845. 21891.
4721	276 2224. 3007. 11146. 21020.
4722	10953.
4723	13894.
4724	170.
4725	18350.
4726	3041. 11275. 14960. 20516.
4727	19541. 19568.
4728	3095. 3108. 3118. 3136. 7038. 12929. 19542. 19583.
4729	1941. 11006. 11031. 11046. 15860. 18376.
4730	142.
4731	1960. 4399. 14837. 14863.
4732	152. 10884 10954.
4733	497. 3096. 3109. 3119. 3137. 7009. 7059. 12930. 12941*). 19543. 19569. 19584. 19596. 21912.
4734	14838. 14864.
4735	277. 6963. 6998. 21818.
4736	68. 91. 1993. 4438. 4461. 5107. 10843. 10921. 10980. 13695. 13709. 13836. 14914. 14992. 15818. 15840. 18287. 18319. 18351.
4737	408. 3151. 15779. 21801.
4738	61. 92. 1994. 2052. 4439. 4462. 4541. 5108. 10844. 10922. 10981. 13696. 13710. 13837. 14915. 14993. 15819. 15841. 18288. 18320. 18352.
4739	6983.
4740	18434.
4741	20517.
4742	318*). 3014. 11174. 11205. 20460. 21001. 21033. 21055.
4743	111. 13777. 13838. 13858.
4744	319. 2170. 3015. 11175. 11206. 11243. 20461. 21002. 21034. 21056.
4745	4542. 14961.
4746	13697. 13778. 13859.
4747	118. 5109. 13698. 13779. 13839. 13860.
4748	214. 15861. 18464.
4749	519.

*) 2965 $AR-10^s$; 5083 $AR-1^s$; 102 $AR+1^s$; 6981 $\delta+1'$; 2169 $\delta-1'$; 3150 $AR+1^s$; 12941 $AR-3^m$; 318 $AR-10^s$.

№ des Catalogs.	
4750	18377.
4751	278. 2225. 11147. 20481. 21021.
4752	10955.
4753	13711. 13747. 13895. 14922. 14962. 14994. 18321. 18353.
4754	11148. 21819.
4755	13712. 13714. 13748. 13896. 14923. 14945. 14963. 14995. 18322. 18354. 18435.
4756	1961. 4400. 10845. 14839. 14865. 14890. 14916. 15820. 18289.
4757	10885.
4758	409.
4759	11276. 11301.
4760	15780.
4761	131. 2053. 2085. 10886. 10923.
4762	198. 1942. 5661. 11032. 16909. 16935.
4763	79. 104. 4401. 10846. 14840. 14866. 15821. 18290.
4764	153. 171. 10956. 10982.
4765	2126.
4766	11244. 11277. 11302. 11363. 20462. 20518. 21003.
4767	427. 449. 7027. 13045. 19597. 21110. 21802.
4768	143. 2086. 2100. 4543. 10924. 13715.
4769	2171. 11245. 11278. 11303. 11364*). 20463. 20519. 21004.
4770	390. 410. 2295. 6999. 10791. 15782.
4771	21070.
4772	3138. 19585.
4773	13840.
4774	11176.
4775	357. 380. 2241. 2253. 6984.
4776	11047. 11068.
4777	11048. 11069.
4778	4374. 14891*).
4779	260. 16945. 21022.
4780	358. 381. 2242. 2254. 6985.
4781	298. 320. 2172. 3016. 11177. 21035. 21071.
4782	450. 498. 2326. 3043. 3071. 7010. 12931. 19570. 21846. 21892. 21913.
4783	14996.
4784	321. 3017. 11178. 11207. 21036. 21072.
4785	2127.
4786	11033. 11070. 15862. 18378.
4787	21803.
4788	280. 2226.
4789	215. 11034. 11049. 16910. 18465.
4790	3139. 19586.
4791	520. 3120. 7051. 12942. 19544.
4792	428. 451. 2327. 7028. 12932. 13005. 13046. 19571. 19598. 21111. 21914.
4793	429. 452. 2296*). 2328. 3072. 12933. 13006. 13047. 19599. 21112. 21893. 21915.
4794	430*). 453*). 12934. 13007. 13048. 19572. 21847. 21916.
4795	199. 216. 5662. 11035. 11050. 15863. 16911. 18466.
4796	391. 412. 2282. 6986. 15783.
4797	173. 2128. 10983. 18436.
4798	15822.
4799	261. 11093. 20482. 21023.
4800	119. 1995. 2054. 4418. 5110. 13699. 13713. 14867.
4801	93.
4802	10957. 11007.
4803	5684. 16946.
4804	3044. 3073. 21848. 21894.
4805	144. 2087. 2101. 4544. 10887. 10925. 13716. 13749. 13861. 18323. 18355.
4806	132. 145. 2088. 2102. 4521. 4545. 10888. 10926. 13717. 13750. 13862. 18324. 18356.
4807	13897.
4808	281. 2227. 6964. 11149. 21820.
4809	454. 2255. 7000. 7029. 7040. 11365. 13049. 19600.
4810	14964.
4811	7011.
4812	2329. 13008. 13050. 19601. 21113. 21804.
4813	13780. 13898.
4814	69. 120. 1996. 4419. 4440. 4464. 5111. 14917. 18291.
4815	62. 70. 121. 1997. 2055. 4420. 4441. 4465. 5112. 10856. 14918. 18292.
4816	154. 174. 2129. 10984. 14924. 14965. 14997. 18437.
4817	1943. 5663. 11036. 11051. 16912. 16936. 18379.
4818	14841. 14892. 15823.
4819	175. 2130. 4546. 5085. 10985. 13718. 14925. 14998. 18438.
4820	112. 3171. 4402. 14868. 15842.
4821	200. 1944. 5664. 11037. 11052. 16913. 16937. 18380.
4822	322*). 11208. 21005. 21037.
4823	3140. 12935. 19587. 21917.
4824	105. 1962. 3172. 4403. 10847. 14869.
4825	11094. 20483.
4826	11008. 11071.
4827	282. 21024.
4828	217.
4829	18439. 18467.
4830	13781.
4831	21073.
4832	242. 254. 2103. 5674. 16947. 16951.
4833	133. 146. 4522. 13841. 13863. 13899. 18325.
4834	499*). 2330. 3045. 7012. 12943. 19545. 21114.
4835	80. 95. 2022. 4421. 5113. 10889.
4836	370. 2243. 6987. 11345. 21089.
4837	72. 122. 1998. 5114. 18293.
4838	15825.
4839	13751. 13782.
4840	96. 2023. 2056. 4422. 10890. 14843.
4841	323. 341. 2228. 2256. 3018. 11179. 11209. 20464. 20520. 21006. 21038. 21074. 21821.
4842	3152. 13009. 21895.
4843	113. 5098. 10848. 14893. 15843.
4844	324. 2229*). 2257. 3019. 11180. 11210. 11246. 16972. 20484. 20521. 21007. 21039. 21075. 21822.
4845	3173. 4375. 4404. 10849. 14870. 14894.
4846	2207. 11095.
4847	325. 2185. 11247. 11279. 20522.
4848	134. 4523. 10857. 13864. 14966. 18294.
4849	63. 4442. 14919.
4850	342. 2186 11280. 11304. 11366.
4851	11281. 11305. 11367.
4852	2230. 11150. 16973. 20465. 20485.
4853	13900. 14926. 14946. 14999. 18357. 18381. 18440.
4854	2131*). 10986. 13719. 13752. 13782. 13865.
4855	11368.
4856	11053.
4857	2187. 11151. 11211. 11248. 11325. 16974. 20466. 20486.
4858	155. 2089. 2132. 4547. 5086. 10927. 10958. 10987. 13720. 13753. 13784. 13866. 18326.
4859	13842.
4860	4405.
4861	12936. 12944. 19546.
4862	73. 147. 1999. 10891. 14967.
4863	177. 11038.
4864	392. 413. 2283. 2297. 7001. 11346. 21057.
4865	431. 455. 21849. 21896.
4866	500. 2331. 3046. 3074. 21115. 21870.
4867	393. 414. 2284. 2298. 4002. 11347. 16938. 21058.
4868	521. 3121. 12978*). 19588.
4869	3153. 7030. 7041. 11409. 13010. 13051. 19602. 21897.
4870	2244. 11115. 11152. 11212. 21008. 21823.
4871	7031. 13011. 13052. 19603. 21898.
4872	201. 255. 1945. 5075. 5665. 11072. 16914. 18468.
4873	178. 13785. 18358. 18382.
4874	81. 97. 123. 4423. 14844. 14871. 15826.

*) 11364 *AR*+1m; 14891 δ+1° 0′ 2″.9; 2296 *AR*+10s; 430, 453 *AR*−10s; 322 δ−3′; 499 *AR*−10s; 2229 *AR*−10s; 2131 δ−1′; 12978 *AR*+20s.

№ des Catalogs.	
4875	179. 10959. 10988. 11009. 11039. 11054. 13901. 14927. 15000. 18441.
4876	3141.
4877	2258. 21090.
4878	2332. 2349. 7013. 12937. 12945. 19547. 21116.
4879	18327.
4880	522. 3122. 3142. 7052. 19589.
4881	3143. 19573.
4882	124. 2000. 4424. 4548. 14872. 15844.
4883	14895.
4884	326. 2188. 11116. 11153. 11181. 11213. 11249. 20487. 20531. 21009. 21040.
4885	202. 2133. 11010. 11055. 18442. 18469.
4886	2024. 2057. 5125. 10892. 13721. 13754. 13810. 13843. 13867.
4887	343. 2173. 2189. 11117. 11154. 11182. 11214. 11250. 11282. 20488. 20523. 21010. 21041.
4888	523. 3145. 7042. 7053. 19574. 19590. 19604. 21871.
4889	64. 74. 98. 148. 1968. 3174. 4443. 4466. 4482. 4524. 5115. 10858. 14920. 15827. 15845. 18295. 18359. 18383.
4890	18328. 18384.
4891	2333. 2350. 3075. 7014. 12938. 12946. 12979. 13012. 13053. 21117. 21850.
4892	371. 382. 415. 2245*). 2259. 2285. 3154. 6988. 19639. 20467. 21059. 21091.
4893	501. 2334. 2351. 3047. 3076. 7015. 12980. 13054. 19548. 21118. 21851.
4894	299. 2208. 2231. 5685. 6965. 11096 15747. 16952. 16975. 21025. 21076. 21824.
4895	13844. 14947. 14968.
4896	2025. 2058. 5126. 10893. 13868.
4897	283. 300. 2232. 3020. 5686. 6966. 11097. 15748. 16948. 16953. 16976. 21026. 21077. 21825.
4898	243. 2104. 5675. 11073. 16915.
4899	3123.
4900	13786. 13812. 13845. 14928. 15001.
4901	327. 11215. 20532.
4902	3077. 13013.
4903	11369. 21899.
4904	75. 99. 125. 2001. 4425. 4467. 5116. 10859. 14921. 15828.
4905	156. 180. 2090. 10928. 10960. 13787. 17033.
4906	4406.
4907	4376. 14845. 14873.
4908	301. 2209. 11155. 21027.
4909	262. 11098. 20489.
4910	14846. 14874.
4911	13722. 13755. 13813.
4912	2299. 2335. 7032. 7043. 12947. 12962. 12981. 13014. 13055. 19549. 19605. 21119.
4913	82. 106. 3175. 4377. 5099. 10894. 14847. 14875. 14897. 15846. 18296. 18404.
4914	12963.
4915	83. 3176. 4378. 5100. 10895. 14848. 14876. 14898. 15847. 18297.
4916	13015.
4917	12948. 12982.
4918	359. 2246. 2260. 6989. 11283. 11326. 21042.
4919	218. 232. 1946. 5666*). 11040. 11056. 11074. 16916.
4920	456. 21852.
4921	328. 344. 2174. 2190. 11183. 11216. 11251.
4922	284. 3021*). 6967. 11099. 11118. 11156. 16939. 16954. 16977. 20468. 20533. 21011. 21078. 21092.
4923	11057. 16917.
4924	285. 302. 2210. 2233. 3022. 5687. 6968. 11100. 11119. 11157. 15749. 16940. 16949. 16955. 16978. 20469. 20534. 21012. 21079 21093.
4925	3155. 21900.
4926	13723. 13756. 13788. 13814. 13846. 13869. 14948. 14969.
4927	308. 3023. 5708. 16950. 16956. 17034. 20470. 20512. 20535. 21013. 21028. 21080. 21094. 21826.
4928	524.
4929	432. 7044. 11348. 11370. 19606. 19640. 21853.
4930	383. 21060.
4931	263. 11101. 11217. 20490.
4932	84. 107. 126. 2002. 4379. 4444. 4468. 5101. 5117. 10896. 15829. 15848. 18298. 18329. 18405. 18443.
4933	304. 345. 2211. 2284. 3023. 11120. 11158. 15750. 16979.
4934	19550.
4935	6969.
4936	13724. 13757. 13815. 13847. 13870.
4937	2352. 3124. 3197. 7054. 11410.
4938	13789. 13848*). 15002.
4939	244. 1947. 2105. 5676. 11075.
4940	329. 2191. 11184. 11252.
4941	2336.
4942	219.
4943	157. 181. 2026. 2091. 3190. 4483. 4497. 10929. 11011. 11041. 11058. 13902. 14929.
4944	203. 2134. 5162. 10989. 18385.
4945	85. 108. 4380. 4426. 17017. 18406. 18444.
4946	2003. 4549. 11526.
4947	14877.
4948	502. 2300. 3048. 3146. 7016. 7033. 7045. 11307. 11349. 11431. 12949. 12983. 13016. 19607. 21120. 21198. 21854
4949	4407. 4445.
4950	182. 4525. 14930. 14970.
4951	5677. 11076.
4952	433. 457. 503. 2286. 2301. 3049. 3147. 3156. 7017. 7034. 7046. 11308. 11350. 11432. 12950. 12984. 19608. 21121. 21137. 21199. 21856.
4953	2175. 11077.
4954	2261. 11159*). 11185. 20536.
4955	434. 458. 504. 2287. 2302. 3050. 3148. 3157. 7018. 7035. 7047. 11309. 11351. 11433. 12951. 12985. 19641. 21122. 21856.
4956	435. 459. 3158. 7048. 11310. 11352. 11434. 12952. 12986. 13017. 19642. 21123. 21200. 21857.
4957	11121. 11160. 11253. 21095.
4958	3177. 11371.
4959	11327.
4960	204. 2135. 4562. 5163. 5667. 11012. 17035. 18386.
4961	86*). 109*). 4408*). 15849. 16068. 17018.
4962	20524.
4963	286. 305. 2235. 21043. 21081.
4964	245.
4965	16957.
4966	100*). 18407. 18445.
4967	3051. 3159. 7019. 7049. 11311. 11353. 12987. 13018. 19609.
4968	7020. 7050. 12988. 13019.
4969	525. 2353. 3125. 3198. 7055. 12964.
4970	2059. 13725. 13758. 13816. 13849.
4971	330. 346. 2262*). 5709. 11122. 11161. 11186. 11254. 20537. 21096.
4972	15851. 16065.
4973	3178*). 11372. 19643.
4974	2176. 2192. 5164. 5678. 11078.
4975	384. 394. 416. 11284. 11328. 21061.
4976	5102. 5127. 13726. 13850. 13871.
4977	14931. 14971.
4978	183. 2092. 4484. 4498. 4526. 5087. 17036.
4979	14932. 14972.
4980	2004. 4381. 4446. 4469. 5118. 11527. 18408. 18446. 20551.
4981	16958.
4982	127. 2005. 2027. 4382. 4427. 4447. 4470. 5119. 11528. 18409. 18447. 20552.

*) 2245 $\delta + 15' \, 0''.8$; 5666 $\delta + 2'$; 3021 *AR* $+ 1^m$; 13848 $\delta - 39'$; 11159 *AR* $+ 30^s$; 86, 109, 4408 *AR* $+ 1^s$; 100 *AR* $- 10^s$; 2262 $\delta + 5' \, 0''.3$; 3178 *AR* $+ 10^s$.

№ des Catalogs.	
4983	13759. 13872.
4984	12965. 13031.
4985	2177. 2193. 5152.
4986	16980.
4987	220. 233.
4988	2060. 2136. 5103. 13760. 13817. 13851. 13873.
4989	12966. 13032. 21138. 21858.
4990	16981. 20525.
4991	526. 3199 7056. 11435.
4992	505. 2303. 3179. 11373. 11388. 12989. 13033. 21139. 21201. 21859.
4993	360. 2247. 11123. 11162. 11187. 11255. 16982. 20588.
4994	13727.
4995	205. 4550.
4996	2148. 13905.
4997	527. 3200. 7057. 7059. 11436. 12953.
4998	287. 306. 2236*). 3149. 11102. 19735. 21044. 21082. 21827.
4999	436. 460. 17201. 21124. 21930.
5000	264. 2212*). 5679. 11080. 21097.
5001	2137. 5104. 5128.
5002	246. 5153.
5003	15852.
5004	11469. 13728. 13790. 13874.
5005	2093. 2106. 5189. 11470. 13875. 13961.
5006	16066.
5007	13020.
5008	2304. 11374. 11437. 12967. 12990. 21202.
5009	13761.
5010	13903.
5011	372. 21062.
5012	417. 3126. 11285. 11329. 19644.
5013	3127. 11286. 19645.
5014	2007. 4383. 4409. 4428. 5120. 11529. 18448.
5015	476. 506. 2305. 3180. 11375. 11438. 12968. 12991. 21203.
5016	4551. 13996. 14933. 14974. 15003. 17019. 16037.
5017	15853.
5018	528. 3201. 12954.
5019	2061. 7065.
5020	2194.
5021	2248. 11124. 20526.
5022	7058. 7060. 12955. 13034.
5023	11330.
5024	2213. 5680. 11081.
5025	373. 2337. 2354. 11256. 13067.
5026	14975.
5027	361*). 2288*). 11188. 11218. 13056. 16983. 21063. 21860.
5028	206. 17038.
5029	305. 437. 461 3128. 11287. 11312. 13021. 21125.
5030	13962. 14934. 15004.
5031	265. 4683. 5688. 11103. 21098.
5032	374. 385. 2338. 2355. 3025. 11257. 13068. 19611.
5033	222. 17058.
5034	529. 11439. 12969. 12992.
5035	331. 347. 2263. 5720. 11125. 11163. 20539. 21045. 21083.
5036	2008. 4384. 4410. 4448. 5121. 15854.
5037	11440. 12970. 12993.
5038	207.
5039	247. 2149. 2178. 5165. 5668. 17106.
5040	184. 4499. 13963.
5041	4553. 4563. 13997. 14018. 17020. 18387.
5042	21248.
5043	266. 4634. 11082. 11104. 21099.
5044	2179. 2195. 2214.
5045	438. 462. 3161. 111354. 13022. 17202. 21204. 21981.
5046	332. 348. 21084.
5047	507. 3181. 11376. 21140.
5048	3129. 11331.
5049	13730. 13762.
5050	16959.
5051	13731. 13763.
5052	223. 14935.
5053	17039.
5054	2028. 2062. 2094. 2107. 2138. 4471. 4485. 5105. 5130. 11471. 13792. 13819. 13852. 13876. 13906. 13934. 16067.
5055	1974. 4411. 5122.
5056	2196. 2215. 5166. 5669. 5689. 17059.
5057	2139. 4449. 4472. 5131. 7066. 7076. 11472. 13793. 13820. 13853. 13877. 13907. 13935. 16068. 18410.
5058	2029. 2095. 2108. 4486. 5132. 7067. 11473. 13794. 13821. 13854. 13878. 13908. 13936. 16069. 18411. 20553.
5059	18449.
5060	396. 418. 2306. 5789. 11288. 11313. 11332. 11389. 19612. 21126. 21179.
5061	530. 3202. 11441. 12971. 12994. 19610.
5062	2339. 2356. 11289. 21127. 21180. 21249.
5063	362. 2289. 11219. 13057. 16984. 21861.
5064	5721. 11189.
5065	20540.
5066	11105.
5067	20527.
5068	224. 2197. 2216. 4577. 5670. 5690. 14936. 17060.
5069	5681.
5070	2340. 2357. 5790. 11290. 21128. 21181. 21251.
5071	397. 419. 2307. 3130. 5791. 11314*). 11333. 11390. 19613.
5072	2264. 3052. 5710. 5722. 11164. 11190.
5073	14977.
5074	2009. 4429. 11530. 13822.
5075	288. 307. 2237. 3191. 11106. 16960. 21085. 21828.
5076	208. 2150. 4554. 4564. 5154. 13998. 17040. 18388.
5077	4527. 13879.
5078	225. 14019.
5079	338. 349. 3053. 5702. 11165. 11191. 19736. 21046.
5080	185. 13964. 15005. 17021.
5081	20528.
5082	289. 308. 2238. 11126. 21086.
5083	386. 2341. 5747. 11258. 13069. 21064.
5084	21252.
5085	439. 463. 3162. 11355. 13023. 13035. 17203. 21173. 21182. 21205· 21982.
5086	13024. 13036. 17204. 21206.
5087	4385. 5123. 11531. 15855.
5088	158. 2140. 4487. 5088. 7077. 18412.
5089	398. 420. 2308. 2358. 3131. 5792. 11291. 11334. 19614. 21129.
5090	248. 2180. 4578. 5167. 5682. 5691. 11083.
5091	267. 21100.
5092	375. 2290. 13058. 13070. 16985. 21862.
5093	4450. 4473. 4528. 16070.
5094	4430. 13823. 18450.
5095	309. 5711. 6970. 11127. 16961.
5096	4529. 7068. 16071.
5097	2030. 4386. 4412. 5124. 11532.
5098	2291. 11220. 11259. 13059. 21863.
5099	4635.
5100	2010. 2063. 2109. 4474. 16072.
5101	12956. 12972. 12995.
5102	477. 508. 5828. 11377. 11391. 21141. 21983.
5103	2217. 5168. 14051. 17107.
5104	2342. 17041. 17153. 17205. 21183.
5105	4579. 5683. 5692.
5106	226. 234. 4605. 14020. 17061.
5107	440. 464. 3163. 5793. 11315. 11356. 13025. 19646.
5108	478*). 509. 3203. 11392. 11442. 21207. 21918. 21934.
5109	4624.

*) 2236 δ−9'0."6; 2212 $AR+10^s$; 361, 2288 δ+1'; 11314 δ−50"; 478 $AR-10^s$.

№ des Catalogs.	
5110	13732. 13764. 13909. 13937.
5111	1975.
5112	13733. 13765. 13795. 13910. 13938.
5113	334. 5723. 20541.
5114	399. 2309. 3132. 5770. 11292. 11335. 16986. 17042. 21065. 21130.
5115	479. 510. 3182. 3204. 5829. 11378. 11393. 11443. 21208. 21919. 21935.
5116	17154. 17206.
5117	2011. 3224. 4431. 4451. 7069. 11474. 13824.
5118	2249. 5724. 11128. 19737. 20529.
5119	13734. 13796.
5120	4580. 17108.
5121	11533.
5122	290. 21087.
5123	387. 2343. 5748. 11260. 13060. 17155. 21174. 21184.
5124	310. 16962. 21101.
5125	159. 186. 2064. 2141. 4488. 4500. 7078. 13966. 14937. 16073. 17022. 18389. 20554.
5126	11450. 12957. 12973. 12996.
5127	5712. 11107. 11166. 20542.
5128	350*). 2239. 5703. 5713. 11108. 11167. 20543. 21047.
5129	2151. 2198. 4555. 4565. 5155. 13999.
5130	385. 2265. 5725.
5131	227. 235. 4606. 17062. 17109.
5132	531. 3205. 11451. 12958.
5133	2292. 11129. 19738. 20530.
5134	363. 11192. 11221.
5135	480. 511. 11379. 21142. 21209. 21253. 21920.
5136	481. 512*). 5830. 11380. 11394. 21143. 21210. 21254. 21921.
5137	187. 2031. 2110. 2142. 4489. 4501. 4530. 5140. 11475. 13735. 13766. 13797. 13880. 14052. 15864. 16074. 18501. 20555.
5138	11193. 11222.
5139	441. 465. 3164. 5794. 11316. 11336. 13026. 17207. 19615. 19647. 21131. 21936.
5140	442. 11337. 13027. 17208. 19648. 21132. 21937.
5141	2199. 7079*). 18390. 18413.
5142	268. 21102.
5143	16963.
5144	12997.
5145	13825. 13939. 13954. 13967. 15868.
5146	21088.
5147	376. 5749. 11261. 13037. 18071. 21066.
5148	2310. 11357. 21922.
5149	2152. 4475. 4531. 5141. 11476. 13767. 13798. 13881. 13911. 14000. 14053. 16075. 18484. 18502.
5150	1976.
5151	3206. 11444. 12974.
5152	336.
5153	249. 2181. 2218. 4625. 5169.
5154	2266.
5155	2143. 7070. 13826. 13940. 13955. 13968. 14021. 15865. 15869.
5156	2012. 2065. 4490. 4502.
5157	11535.
5158	377. 388. 2344. 2359. 5750. 13072. 16987. 21864.
5159	2153. 4432. 4452. 4503. 4532. 4566. 13736. 13768. 13799. 13882. 13912. 14001. 14054. 17043. 18485. 18503.
5160	2013. 2032. 2066. 2154. 4433. 4453. 4476. 4504. 4533. 4567. 11477. 13737. 13769. 13800. 13883. 13913. 14002. 14055. 17044. 18486. 18504. 20556.
5161	16964.
5162	4413.
5163	5751. 11262. 16988. 21067.
5164	482. 513. 5831. 11381. 11395. 21211.
5165	160.
5166	17068.
5167	2240.
5168	11194. 11223. 20554.
5169	161. 2014. 5142. 18414.
5170	466 5795. 11317. 13028. 19616. 21133. 21923.
5171	400. 421. 2311. 5771. 11293. 11338.
5172	291. 311. 11084. 19739. 21048.
5173	269. 5693. 11109. 17110. 21103.
5174	11195. 11224. 13061. 20545.
5175	19649.
5176	189. 2111. 4434. 11478. 13969. 17045.
5177	4387*). 4414*).
5178	532. 12959. 12975.
5179	483. 514. 3183. 5832. 11382. 21212. 21938.
5180	337.
5181	5726.
5182	1977. 4388.
5183	4626.
5184	2033. 4534. 13738. 13770. 13801. 14938. 17046. 18505.
5185	515. 11396. 11445. 11452. 12998. 21924.
5186	228. 236. 14022. 14056.
5187	13038.
5188	443. 467. 5796. 11358. 13029. 19617. 19650. 21134. 21144. 21185.
5189	351. 11085. 11130. 16966.
5190	312. 2182. 2267*). 5694. 5714. 17111. 19740.
5191	209. 4556. 4568. 5156. 7080. 15973. 16076. 17064. 18391.
5192	162. 2067. 2112. 4477. 4491. 4505. 5143. 13941. 13956. 13970. 18487.
5193	2015. 4435. 4454. 5133. 11536. 13884. 18415.
5194	2293. 5752. 11263. 21068.
5195	364. 389. 2294. 5753. 11196. 11264. 13073. 16989. 21069.
5196	3207. 12960. 12976.
5197	516. 5833. 11383. 21213.
5198	444. 11318. 21135. 21145. 21186. 21939.
5199	4581*). 14003. 14023. 19764.
5200	16077.
5201	2250. 5727. 11168. 11225.
5202	11537.
5203	533. 3208. 12961. 12977. 12999.
5204	250.
5205	20546.
5206	2144*). 4535. 5144. 11479. 13739. 13771. 13802. 13827. 14939. 15866. 15870.
5207	190. 13957. 13971. 17047.
5208	13039.
5209	4636. 21104.
5210	7061. 11446.
5211	270. 2219. 4637. 16967. 21105.
5212	19618.
5213	11538.
5214	15867. 15871.
5215	2200. 4569. 5157. 15974. 17065.
5216	378. 2360. 11265. 11294. 11339. 13062. 13074. 19619.
5217	11359. 13030. 19651.
5218	365. 11169. 11226.
5219	229. 237. 4607. 18392.
5220	13942. 13972. 17048.
5221	4627. 5170. 5180. 14057.
5222	210. 2201. 14004. 14024.
5223	338. 352. 11131. 19741.
5224	401. 422. 2312. 5772. 5797. 11319. 11397. 21865. 21940.
5225	366. 11227. 20547.
5226	445. 468. 21146. 21187.
5227	2113. 2145. 2155. 4478. 4536. 5145. 7081. 11480. 13740. 13772. 13803. 13828. 13914. 14940. 18488. 18506.
5228	402. 423. 5773. 11340. 11398. 21866.
5229	2251. 2268. 5728. 11170. 11228. 20548.

*) 350 δ+12′ 0.7″; 512 δ—10″; 7079 δ—1′ 4387, 4414 δ+10″; 2267 δ+30′ 1″.8; 4581 AR+10ˢ; 2144 AR+1ᵐ.

№ des Catalogs.	
5230	238. 15975. 18393.
5231	446. 469. 21136. 21147. 21188.
5232	13000.
5233	2114. 2146. 2156. 5146. 7082. 11481. 15872.
5234	13075.
5235	517. 21214. 21925.
5236	230. 4582.
5237	163. 192. 2068. 4506. 13943. 13973. 17049.
5238	2269*). 5729. 16990.
5239	271. 4638. 16968. 21106.
5240	2345. 5774. 11341 21867.
5241	11482. 13741. 13773. 13829.
5242	1978. 3225. 4389. 4415. 5134. 11540. 20557.
5243	1979. 3226. 4390. 4416. 5135. 11541. 20558.
5244	2016. 2034. 4455. 18416.
5245	484.
5246	2202. 5695. 11086.
5247	292. 313. 11132. 13063.
5248	11197. 11266. 11295. 13041.
5249	251. 5181. 5697.
5250	11267. 11296. 13042.
5251	2018. 2036. 2069. 4436. 4456. 4479. 7071. 11483. 18489.
5252	2220. 5182. 5698. 11111.
5253	584. 3209. 7062. 11411. 11447.
5254	314. 16969.
5255	19742. 19765. 19775.
5256	13958. 15873.
5257	231. 239. 2183. 4583. 4608. 4628. 5158. 5171. 14949. 17066.
5258	2115. 4537. 7083. 13742. 13804. 14941. 18507. 18542.
5259	2116. 4538. 13743. 13805. 14942. 18508. 18543.
5260	518. 5834. 11384. 11453. 13001. 21148. 21215. 21926.
5261	164. 4492. 4507. 13855. 13915. 13974. 17050.
5262	13885. 19743. 19766. 19776.
5263	4457. 4480. 11484. 13830. 18417. 18490.
5264	272. 2203. 4639. 11087. 21107.
5265	240. 2157. 4609. 5159. 5172. 17068.
5266	2270. 11133. 13064. 13076.
5267	3184.
5268	211. 18394.
5269	4391. 11542.
5270	339. 353. 5730.
5271	2313. 2346. 21868.
5272	447. 470. 19652. 21189.
5273	403. 2314. 2347. 5775. 5798. 11320. 11342. 11399. 21869. 21941.
5274	367. 2361. 5754. 11198. 11229. 16991. 19620. 20549.
5275	424. 5776. 11321.
5276	252. 4610. 4629. 5183. 11088.
5277	16970.
5278	193. 2147. 4493. 4508. 4567. 4570. 5147. 13856. 13916. 13944. 13959. 13975. 14943. 15874. 15890. 17051.
5279	2019. 2070. 4392*). 11543. 16078.
5280	293. 315. 11134. 21108.
5281	2204. 4640. 13065. 13077.
5282	13831. 14978. 17052.
5283	165. 13806. 13832. 14979. 15939.
5284	19744.
5285	17209. 21216. 21927.
5286	1980. 2020. 4393. 4417. 7072. 11544. 16079.
5287	11230.
5288	404. 425. 5777. 11297. 11343.
5289	13744. 13774.
5290	166. 4494. 4509. 4558. 4571. 13807. 13857. 13917. 13945. 13976. 14944. 17053. 18395.
5291	2117. 2158. 4539. 7084. 13745. 13775. 18491. 18509. 18544.
5292	1110. 2037. 4458. 5136. 13886. 18418. 20559.
5293	485. 5835. 13002. 17210. 21149. 21217. 21928.
5294	11485.
5295	2221. 5184. 5699. 11089.
5296	448. 471. 3165. 5799. 11360. 15976. 19653. 21255.
5297	194. 13833. 14980. 15875.
5298	241. 17069.
5299	368. 2271. 5755. 11199. 11231. 13043. 16992. 19621. 20550.
5300	14950. 18396.
5301	369. 11200. 13044. 13066. 16993.
5302	379. 11268.
5303	21190. 21218.
5304	340. 354. 2252. 5704. 5731. 11171. 21109.
5305	472. 11400.
5306	15876. 15891. 15940.
5307	17211. 17268. 21191. 21219.
5308	486. 535. 17212. 17269. 21150. 21192. 21220.
5309	5836. 11385. 13003.
5310	2315. 2348. 5778. 11298.
5311	5800. 11322. 11344. 11401. 19654. 21942.
5312	3210*). 11412. 11448.
5313	5148. 13746. 13776. 18510.
5314	405. 2362. 5779. 11299. 11361.
5315	11172.
5316	2071. 2118. 3278. 4437. 4481. 7092. 11486. 13808. 13834. 13887. 19777.
5317	15977. 21256. 21929. 21943.
5318	11135. 11173.
5319	3166.
5320	5837. 7063. 11386. 11449. 11454. 16080.
5321	406. 426. 5780. 11300.
5322	273. 2205. 3259. 4641. 5185. 5700. 11090. 18520.
5323	11232. 11269. 13078. 17070. 19622.
5324	2184. 2206. 3260. 4642. 5186. 5701. 11091. 18521.
5325	4631. 18545.
5326	17213. 18511.
5327	21221. 21257.
5328	473. 487. 3167. 5801. 5814. 11323. 11413. 15978. 21222. 21228. 21258.
5329	11487.
5330	11201. 11270.
5331	2222. 5705. 11136.
5332	1111. 17126. 18419. 19778.
5333	2038. 2119. 3279. 4459. 7085. 13809. 13835. 13888. 15877. 17054.
5334	2021. 3241. 4394. 5137. 7073. 11545.
5335	2159. 4584. 5160. 7093.
5336	4495. 4559. 4572. 13918. 13946. 13960. 13977. 18397.
5337	536. 3185*). 3211. 5854. 11387. 21944.
5338	474. 488. 11362. 11402. 11414. 15979. 21193. 21223. 21229.
5339	14005. 14025. 14058.
5340	11488.
5341	5732.
5342	11546*).
5343	5715. 11112.
5344	1196. 3261. 5706. 11113. 11137. 18512. 18522.
5345	3168. 3212. 5815. 7064. 11324. 11403. 21194. 21945.
5346	5838.
5347	21259.
5348	3192. 14006. 14059.
5349	17214.
5350	1260. 3169. 3213. 17270. 21195. 21946.
5351	18492.
5352	15892. 17055.
5353	1229. 5781.
5354	1142. 3242. 4510. 4540. 7086. 17082. 17127. 18398.
5355	537*). 1261. 3170. 3214. 5816. 17271. 21196.
5356	1230. 21224.
5357	4496. 4511. 4560. 4573.
5358	1112. 1160. 1169. 4612. 5861. 7074. 13986. 16994. 17023. 17156. 18420. 19779.

*) 2269 $\delta + 1^{\circ}\,0'\,3''.4$; 4392 $\delta + 10''$; 3210 *AR* -1^{s}; 3185 *AR* $+30^{s}$; 11546 *AR* -10^{s}; 537 $\delta - 1'$.

№ des Catalogs.	
5359	2223. 5707. 11138. 17215. 18513.
5360	1242*).
5361	5782. 21225.
5362	489. 21230.
5363	4632. 18546.
5364	14026. 15941.
5365	21947.
5366	17056.
5367	1218. 3220. 3298. 5733. 5756.
5368	2160. 3262.
5369	4585. 7094. 17112.
5370	1283. 5839. 21948.
5371	15878. 15893.
5372	1143. 3193. 3243. 4643. 7075. 14060. 17071. 18421.
5373	3352. 5783. 5802. 21226. 21260.
5374	1180. 3280. 5161. 5173. 5187. 17083. 18523.
5375	1262. 5817. 17272. 21197.
5376	4613. 4651. 5862. 15894. 15914. 15942. 16995. 17024. 18547. 19780.
5377	1144. 14061. 17072. 18422.
5378	4614. 4652*). 5863. 14027. 15879. 15895. 15915. 15943. 16996. 17025. 18548. 19781.
5379	1204. 3281. 3299. 5734. 5757. 15980.
5380	4586. 7095.
5381	1243.
5382	1205. 3300. 5735. 15981. 19623. 19655.
5383	1188. 2161. 17113.
5384	5716. 17216.
5385	13987.
5386	1206. 1219*). 3301. 5758. 15982.
5387	1189. 3263. 5188. 17114.
5388	1253. 1263*). 3353. 5784. 5803. 21227. 21231.
5389	17128.
5390	4512. 4561. 4574. 18399.
5391	3244. 4644. 16081. 17084. 18470.
5392	1113. 15944. 16997.
5393	538. 3386. 5840. 5855. 21949.
5394	539. 3387. 5841. 5856. 21950.
5395	1170. 17129.
5396	14007. 14062. 17085. 18471.
5397	1254. 1264. 3354. 5804. 21261.
5398	1197. 1231. 3282. 5736. 5759. 19656.
5399	3227.
5400	1265. 5818.
5401	1145. 1171. 5138. 17026. 18423.
5402	4615. 5864. 16082. 17086. 18472.
5403	3264. 4587. 5174. 5189. 15916. 18400. 18524.
5404	21872.
5405	1161. 1181. 3231. 7096.
5406	1284. 3388. 5842. 5857. 21951.
5407	14008. 14028. 17087.
5408	1244. 3334. 5785.
5409	2162.
5410	3245. 4513.
5411	5805. 21262.
5412	5175. 15917.
5413	16998.
5414	3335. 5786.
5415	1207. 1220. 1232. 3283. 3302. 5737. 5760. 15010. 15945. 17115. 19657.
5416	1114. 1146. 1172. 3194. 4616. 4645. 5865. 13988. 17027. 17088. 17130. 18473. 18549.
5417	14029. 14063.
5418	14009.
5419	18401.
5420	1208. 1221. 3284. 5738. 5761. 17116.
5421	1209. 5739. 5762. 15011. 15946. 17117.
5422	16999.
5423	1147. 1163. 3246. 5866. 5878. 13989. 17091. 18424.
5424	4653.
5425	4588.
5426	1285. 3389. 5843. 21952.
5427	1115. 1148. 1164. 3195. 3247. 4617. 5867. 5879. 13990. 17001. 17092. 17131. 18425. 18550.
5428	1233. 3303.
5429	14030. 14064.
5430	5858.
5431	1245. 3321. 21263.
5432	1255. 3336. 5806. 5819. 22008.
5433	4514.
5434	3337. 5807. 5820. 22009.
5435	3304. 5740. 19658.
5436	4597. 14010. 17028. 18474. 18493.
5437	1183. 5190. 18525.
5438	3228. 5191. 7098.
5439	15918.
5440	1190. 3265.
5441	1173. 14031. 17132.
5442	1198*). 15880. 15983. 17217.
5443	5763. 15947.
5444	1245. 3322. 21264.
5445	2163*). 15984. 18526.
5446	4575.
5447	3215. 5821. 21873.
5448	1234.
5449	13991.
5450	17002. 18475. 18551.
5451	1286. 3390. 5844. 21953.
5452	18494.
5453	1247. 3338. 5787. 5808.
5454	1165. 4515. 7087. 18495. 20573.
5455	4654. 5880. 15920. 17093.
5456	2164. 3266. 5717. 17218. 19685.
5457	15882.
5458	1116. 4618. 5868. 14011. 14032. 17029. 17133. 18426. 18552.
5459	15948.
5460	3186.
5461	1199. 2165. 15896. 19706.
5462	1266. 3391. 5845. 5859. 17273.
5463	4646. 16083.
5464	1210. 3285. 5741. 17118. 19659.
5465	4655. 5881. 13978.
5466	4576. 7088.
5467	1222. 3305. 5764. 7118. 18586. 19624. 19665.
5468	1235. 3306. 5765. 7119. 7136. 18587. 19625. 19666.
5469	5882. 17094.
5470	15012.
5471	1174. 4598. 4647. 5869. 14012. 14066. 16084. 17134. 18496. 18553. 18580.
5472	15013. 18476.
5473	17219.
5474	1175. 14086. 16085. 17073. 18497. 18554. 18581.
5475	7099.
5476	4516. 18427.
5477	17003.
5478	4589. 18402. 20560.
5479	5176. 18514. 20561.
5480	17030.
5481	4656. 13979.
5482	17274.
5483	1166. 1176. 5870. 14067. 14087. 16086. 17074. 18498. 18555. 18582
5484	1223. 3307. 5766. 15949.
5485	22010.
5486	1200. 15883. 15897. 18527. 19686. 19707.
5487	7179. 17258.
5488	3219. 7100. 20574. 20588.
5489	17220.
5490	15014.
5491	4590. 18403.
5492	1211. 3286. 5742. 17119. 18588. 19660.

*) 1242 δ+1'; 4652 δ+1'; 1219 δ−1'; 1263 δ+1'; 1198 δ−1'; 2163 *AR*+10s.

№ des Catalogs.	
5493	13992. 14013. 14033. 17004.
5494	5846*). 17275. 21151.
5495	1184. 3248. 3267. 5718. 15868. 15898. 15985. 17095. 19687.
5496	1149. 3187. 13947. 14951.
5497	1117. 1191. 4517. 5883. 7089. 14982. 15015. 18428. 18477.
5498	4657. 13980. 15921. 17031.
5499	17135.
5500	1118. 1192. 3188. 3234. 4518. 5884. 7090. 13948. 14983. 15016. 18429. 18478.
5501	1236. 3308. 5767. 7120. 19626.
5502	1256. 3355. 5822. 17259. 21265. 21874.
5503	4599. 4648. 14068. 16087. 17075. 18556. 18583. 19782.
5504	1287. 3216. 3392. 5847. 7180. 21158. 21954.
5505	15884.
5506	3368. 17276.
5507	1248. 1267. 5788. 5809. 7137. 7149.
5508	13981. 15922.
5509	21152.
5510	4658. 17136. 18479. 18499.
5511	1212. 3287. 5743. 17120. 17221.
5512	1201. 15885.
5513	19627. 19661. 19708.
5514	18528.
5515	14014. 14034. 14088. 17005.
5516	1119. 1167. 1177. 3196. 4519. 5149. 7091. 13949. 14984. 15017. 18515. 18584.
5517	14985. 15923.
5518	13993. 14069.
5519	19783.
5520	1185. 1193. 3220. 5177. 5192. 7101. 7106. 17076. 17096. 18606. 20562. 20575.
5521	14952. 15006.
5522	1237. 1268. 3323. 5810. 15950. 17277. 19667. 21232. 21955.
5523	3229. 5719. 15886. 15986.
5524	21153.
5525	3309. 5768. 18589. 19662.
5526	7181.
5527	1269. 3339. 3369. 7138. 15951. 17278. 21956
5528	1213. 1224. 3268. 3288. 5744. 17121. 17222. 19688.
5529	2166. 3249. 7107. 17077. 18529.
5530	3235. 4591. 4600. 4619. 7121. 15899. 17157. 20589.
5531	1249. 1270. 3370. 5811. 15952. 17279. 21233. 21957. 22011.
5532	4649. 13982. 13994. 14015. 17006. 19784.
5533	1214. 1225. 3269. 5745. 15098. 17122. 17223. 19689.
5534	15018.
5535	4592. 4601. 4620 7102. 7122. 15900. 17097. 17137. 17158. 18480. 20590.
5536	15887.
5537	1150. 1194. 3236. 4593. 4602. 4621. 5178. 5193. 7103. 7123. 15901. 17098. 17138. 17159. 17177. 18481. 18557. 18607. 20591.
5538	1215. 1226. 3289. 15026. 19690.
5539	13950. 14953. 15007.
5540	21266.
5541	1257. 3356. 5823. 21159.
5542	3310. 18590. 19628. 19709.
5543	1238. 15987. 19668.
5544	18516.
5545	3324. 5812*). 15988
5546	14986. 15019*).
5547	7104. 20576.
5548	1250. 3325. 7139. 15953. 15989. 16032. 17280. 21234. 22012.
5549	1168. 3250. 7108.
5550	3340. 7157.
5551	13951. 14954. 14987. 15008.
5552	13983. 17007. 19785.
5553	1216. 3290. 5746. 15027. 15888. 17123. 17224. 19629.
5554	19669.
5555	13995. 14016. 14035. 14070.
5556	21267.
5557	1239. 3311. 5769. 18591. 19663.
5558	3371. 21154.
5559	3221. 4594. 5194. 11591. 15902. 18517. 18558. 18585. 18608.
5560	1288. 3217. 5848. 21160.
5561	1186. 14988. 17099. 18482.
5562	3270. 19691.
5563	15956. 17281.
5564	15990.
5565	17225.
5566	15924. 17078. 17160. 17178. 20563.
5567	3372. 7158. 11455.
5568	13952. 14955. 15020. 15052. 17139.
5569	3251. 7109. 15028. 15099. 20592.
5570	7105. 20577.
5571	3189. 13953. 14956. 15021. 15053. 17124.
5572	3218. 3393. 5849. 5860.
5573	1120. 1178. 4520. 5150. 5885. 11592. 14089. 16088. 18483. 18500.
5574	1271. 3341. 3357. 7182. 16033. 21235. 21268.
5575	1258. 5824. 21155.
5576	4595. 15903. 18518. 18530. 18609.
5577	14989. 15009. 17100.
5578	15957.
5579	13984.
5580	1289. 3373. 5850. 21958.
5581	1151. 3222. 17079. 17161. 17179.
5582	15889.
5583	14017. 14036. 14071. 17008.
5584	4603. 4622. 17032.
5585	1240. 3312. 3326. 7140. 15991. 17226. 19664. 19670. 22013.
5586	3237. 4596. 5179. 5195. 7124. 15904. 15925. 17080. 18519. 18531. 20564.
5587	14957. 15022. 17125.
5588	14037. 14072. 19786.
5589	1272. 3358. 5825. 21156. 21175. 21236. 21269.
5590	13919.
5591	1251. 3342. 3413. 5813. 7150. 7159. 19671.
5592	1290. 3394. 5851. 7183. 21161. 21959.
5593	1187. 3252. 7110. 17101. 19710.
5594	17009.
5595	22014.
5596	3395. 5852. 7184. 11456.
5597	4659. 13985. 18559. 20593.
5598	17180. 19692.
5599	17102.
5600	1203. 1227. 3271. 7125. 17227. 18592.
5601	15030.
5602	5826.
5603	3327. 17140. 20565.
5604	11489. 19787.
5605	11404. 22015.
5606	7111.
5607	2316. 3396. 5853. 11457. 21162.
5608	1241. 3313. 3414. 7160. 15100. 15926. 15958. 17320. 19630.
5609	17181. 19693.
5610	623. 657. 18532.
5611	592. 1121. 1152. 1179. 3238. 4604. 4623. 4650. 5151. 5871. 17010. 17162.
5612	1217. 15959. 15992. 17283.
5613	677. 7126. 15031. 17182. 19694. 20651.
5614	1228. 1252. 3272. 7141. 15054. 15905. 15960. 15993. 17228. 17284. 18593.
5615	15927. 17321.
5616	1259. 3359. 5827. 7173. 11415. 19672. 21176.

*) 5846 *AR*+1ˢ; 5812 δ—1′; 15019 δ+1°.

№ des Catalogs.	
5617	11405. 21237. 22016.
5618	15023.
5619	2363. 11458. 21157.
5620	7185.
5621	19711.
5622	580. 3291. 4660. 11547. 18560. 20594.
5623	2272. 7151. 11406. 21238. 22017.
5624	13920.
5625	17141. 20566.
5626	565. 3253. 4661. 5872. 11490. 11505. 17011. 17163. 18610.
5627	7161. 11416. 16034.
5628	17229.
5629	640. 3343.
5630	7174*). 19673.
5631	11593. 20578.
5632	11560. 20595.
5633	3374. 7127. 17103.
5634	11548. 11561. 20596.
5635	15906. 15961.
5636	15101.
5637	21960.
5638	2364. 7175. 7186. 11417. 21163. 21177. 21984.
5639	11549. 11562. 11594. 18561.
5640	2365. 7187. 11418. 21164. 21239. 21985.
5641	2317. 11459.
5642	678. 3360. 7112. 11666. 15032. 17183. 17230. 19695. 20652.
5643	18594.
5644	18921.
5645	15055. 15907. 15994.
5646	679. 7113. 7128. 11667. 15033. 17184. 17231. 19696. 20653.
5647	17164.
5648	15024.
5649	594. 3314. 11563*). 11595. 18595. 20579.
5650	609. 624. 3328. 3344. 11620. 18533. 20567.
5651	3397. 7142. 17285.
5652	581. 3292*). 11550. 18562. 20597.
5653	7176. 7188. 11419. 16005. 21965. 21986.
5654	3254. 11506. 17012. 18611.
5655	2273. 21165.
5656	551. 11491. 15928.
5657	17322.
5658	11690.
5659	19674. 21961.
5660	11460.
5661	733. 7162. 16035. 17323.
5662	734. 7163. 16036. 17324.
5663	610. 625. 3345. 11621. 11646. 18534.
5664	17165.
5665	11551. 11596. 18563. 20598.
5666	540. 3239. 4662. 5873. 11492. 11507. 15929. 15962. 17013.
5667	2274.
5668	3433. 7177. 7189. 11407. 11420. 16006. 19675. 21178. 21240.
5669	3375. 7129. 15034. 15056. 15908. 17232. 17236. 19697.
5670	2275. 3434. 7178. 7190. 11408. 11421. 16007. 19676. 21241.
5671	3315*). 11564. 13922. 17104. 18596.
5672	11622. 15025. 17142.
5673	5887. 11493. 15930. 17166. 18612.
5674	7164. 17286. 17325.
5675	3398. 7143. 19631.
5676	11508.
5677	15035.
5678	2318. 2366. 3420. 7208. 11461. 16008. 18721. 21166. 22020.
5679	17105.
5680	641. 3329. 5913. 11647. 15995. 18535. 19721. 20568. 20580. 20615.
5681	680. 690*). 3376. 7130. 15057. 17185. 17237. 19698. 19712. 20654.
5682	2319. 2367. 3421. 7209. 11462. 16009. 18722. 21167. 21962. 22021.
5683	541. 552. 3255. 4663. 5874. 11494. 11509. 15931. 17014. 17167. 18564. 18661.
5684	735. 3407. 7165. 16037. 17287. 17326. 22018.
5685	11623. 11648. 20616.
5686	15963.
5687	716. 3399. 7144. 15102. 19632.
5688	542. 553. 566. 3240. 5875. 5888. 11495. 11510. 18565. 18613. 18662. 19804.
5689	17186.
5690	15996.
5691	543. 554. 11496. 11511. 17168. 18566. 18614. 18663. 19805.
5692	17288.
5693	544. 554. 3256. 4664. 5889. 11497. 11512. 17169. 18567. 18615. 18664. 19806.
5694	681. 7114. 11668. 15036. 17187. 19713. 20655.
5695	595. 3293. 5895. 11552. 11597. 17143. 18597. 20599.
5696	611. 659. 3330. 11624. 18536. 19722. 20569. 20581.
5697	15037. 17238.
5698	736. 3408. 7166. 17289. 17327. 22019.
5699	7210. 11463. 16010. 18723. 21168.
5700	2276. 3435. 7191 11422. 19677. 21242. 21966. 21987. 22022.
5701	699. 3223. 3377. 7131. 15909. 17188. 22036.
5702	20570. 20582.
5703	15038.
5704	642. 3346. 11649. 18537. 19723. 20617.
5705	3361. 5950. 7115. 11669. 15932. 15964. 19699. 19714. 20656.
5706	11670. 15965. 19700.
5707	2320. 7211. 11464. 16011. 18724. 21169. 21988.
5708	17328.
5709	15039.
5710	660. 3378. 15058. 15933. 15966.
5711	17170. 17189. 19807.
5712	21963.
5713	2368. 7192. 11423. 16038. 19678. 21243. 21964.
5714	17015. 17171. 17190. 19808.
5715	596. 626. 5896. 11598. 15997. 17144. 18568. 18634. 18665.
5716	737. 3400. 3409. 7167. 17290.
5717	661. 3362. 5951. 11671. 11691. 15059. 15934. 19715. 20657.
5718	11553. 11565. 20600.
5719	18682.
5720	3294. 11554. 18598. 20601.
5721	16012.
5722	717. 17329. 19633.
5723	597. 643. 3316. 5897. 11599. 11625. 13923. 15998. 17239. 18538. 19724. 20583.
5724	3331. 5914. 14090. 18635.
5725	15040.
5726	2321. 3436. 7212. 11465. 18725. 21967. 21989.
5727	5898. 17145. 18569. 18666.
5728	15103.
5729	11555.
5730	556. 3273. 5890. 11498. 17172. 19809.
5731	2277. 3422. 7213. 11424. 16013. 16039. 18705. 18726. 19679. 21170. 22023.
5732	612. 3332. 5915. 11626. 17191. 17240. 17330. 18636. 19725. 20584. 20658.
5733	11556.

*) 7174 *AR*—1ˢ; 11563 δ—1″; 3292 *AR*+10ˢ; 3315 *AR*+20ˢ; 690 δ—10″; Druckf. +9′.

№ des Catalogs.	
5734	567. 3274. 4673. 5876. 11513. 18599. 18616.
5735	15910.
5736	17192. 17331. 20571.
5737	11650. 14091. 20618.
5738	691. 3379. 7132. 11692. 15104. 15911. 19716.
5739	15967. 17332. 20572.
5740	7133. 11693. 15912. 19717.
5741	11600. 13924. 17241. 18570.
5742	21244.
5743	700. 718. 3401. 3410. 7145. 13085. 15999. 17291. 22037.
5744	662. 3363. 5952. 11672. 19701.
5745	15041. 15060.
5746	598. 3317. 5899. 11601. 17146. 18600. 18667.
5747	627. 5916. 11627. 15935. 15968. 17193. 18637.
5748	4665. 17173.
5749	599. 3295. 11602. 13925. 17147. 18539. 18668. 19825.
5750	545. 557. 3257. 11499. 11514. 18617. 19810. 20630.
5751	11651. 14092.
5752	568. 3275. 4674. 5891. 18601.
5753	613. 3347. 5917. 11628. 17194. 17242. 20585.
5754	13926. 19726. 19745.
5755	13927. 19727. 19746.
5756	11557. 11566. 18638. 20602.
5757	491. 2322. 5196. 7193. 16040. 18683. 18706. 21171. 22024.
5758	3318. 11603. 17148. 18669.
5759	2369. 3437. 7214. 16014. 18727. 21990.
5760	719. 3402. 7152. 16000. 17292. 22038.
5761	13086.
5762	15936. 15969.
5763	11652. 14093. 19826.
5764	738. 3411. 7168. 17333. 19634. 22055.
5765	2278. 3423. 11425. 18757. 19680. 21245.
5766	11515. 17174. 18618. 19788. 19811.
5767	11629. 20586.
5768	11467. 21968.
5769	17243.
5770	11673. 19702.
5771	15937. 15970.
5772	644. 663. 3348. 3380. 5918. 5953. 11653. 14094. 15042. 15061. 18571. 18639. 20619. 20659.
5773	720. 3403. 7146. 16001. 17293. 22039.
5774	11500. 11516. 19812. 19869.
5775	645. 664. 3349. 3381. 5919. 5954. 11654. 14095. 15043. 15062. 17149. 18572. 18640. 20620. 20660.
5776	646. 665. 3350. 3382. 5920. 5955. 11655. 14096. 15044. 15063. 17150. 18573. 18641. 20621. 20661.
5777	2323. 3438. 7215. 16015. 18684. 18707.
5778	3424. 7153. 7194. 11426. 16041. 18739. 19681.
5779	600. 3296. 3319. 5900. 11604. 17195. 18602.
5780	546. 3258. 4666. 5877. 11517. 18670. 19767. 19789. 19870. 20631.
5781	11712. 13087*). 15913. 19718.
5782	2370. 11427. 18740.
5783	558. 3276. 5892. 11501. 17175.
5784	5197. 5212. 18685. 21991.
5785	614. 3333. 5921. 11630. 15938. 15971. 20587.
5786	701. 7134. 11694. 13096. 17260.
5787	2279*). 18758. 21246.
5788	601. 3297. 5901. 11567. 17196. 18603. 19747.
5789	13088. 17244. 19719.
5790	16042. 19682.
5791	721. 3404. 7147. 16002. 17334. 19635.
5792	11558. 20603.
5793	628. 11631. 13928. 17151. 18540. 19728. 19827. 19850.
5794	682. 3364. 7116. 11674. 15045. 15064. 15105. 17296. 19703.
5795	492. 7195. 11468. 18728. 21172. 22025.

№ des Catalogs.	
5796	629. 3351. 5922. 11632. 13929. 17152. 18541. 18642. 19729. 19828. 19851.
5797	5893. 11502. 11518. 17176. 19790. 19813. 19871.
5798	22040. 22056.
5799	683. 3365. 7117. 11675. 15046. 15065. 15106. 17297. 19704.
5800	7169. 22041. 22057.
5801	2324. 3439. 5198. 5213. 7216. 16016. 18686. 18708. 21969. 21992.
5802	14097.
5803	2371. 3425. 7154. 11428. 18741. 18759. 19683. 21247.
5804	17197. 19748.
5805	13079. 13097.
5806	722. 3405. 7148. 17335. 19636.
5807	2280. 2372. 3426. 7155. 11429. 18742. 18760. 19684.
5808	4675. 11559. 11568. 11605. 18604. 20604.
5809	739. 7170. 16003. 10017. 16043. 17245. 17294. 18729.
5810	3412. 16004. 16018. 17295. 18730.
5811	21970. 21994.
5812	702. 3388. 7135. 11695. 13089. 13098. 15047. 15066. 15107. 17261. 19705. 19720. 20605.
5813	692. 11696. 13080. 13099. 19749.
5814	18605.
5815	7171. 22042.
5816	2281. 2373. 3427. 5226. 7156. 11430. 18687.
5817	5245. 19637.
5818	17198. 17233. 17246. 17298.
5819	751. 5235. 18743.
5820	5937. 11638. 11656. 17234. 17247. 17299. 18643.
5821	602. 615. 630. 3320. 3406. 5902. 5923. 11569. 11606. 17199. 17235. 17262. 17300. 18644. 18671. 20622. 29632.
5822	3277. 3448. 11676. 13931.
5823	693. 703. 11697. 11746. 15067. 19852.
5824	7172.
5825	493. 2325. 2391. 3440. 5199. 5214. 7196. 7217. 16044. 18688. 18709. 21287.
5826	3366.
5827	13081. 15048. 20606. 22058.
5828	11503. 11519.
5829	740. 22026. 22043.
5830	647. 666. 5303. 5956. 5966. 11657. 15972. 19730. 20662.
5831	5894.
5832	14038. 14073. 19791. 19829.
5833	13932.
5834	11698. 11713. 11747. 13090. 15068. 19853.
5835	19872.
5836	21971. 21995.
5837	14098.
5838	631. 3384. 5291. 5938. 17200. 17263. 20623.
5839	494. 2392. 5215. 7218. 16019. 18689. 18710. 18731. 21288.
5840	11570. 13933. 17248. 19873.
5841	5216. 18711. 18732.
5842	704. 724. 5246. 5258. 13100. 15049. 15069. 18761. 19750. 20607.
5843	667. 3367. 5270. 20663. 22123.
5844	684.
5845	547. 582. 3428. 3441. 4667. 11607. 17301. 17336. 18619. 19814.
5846	5957. 5967. 19781.
5847	11504. 11520. 14039. 14074. 19792.
5848	19793*).
5849	16020. 18690.
5850	569. 3449. 4676. 5903. 5924. 11684. 11677. 18645. 18672. 19768. 19830. 19899.
5851	13082.
5852	705. 5247. 5259. 13091. 13101. 15050. 15070. 22059.
5853	3442*). 11608. 17264. 18620.
5854	706. 725. 5260. 13092. 15051. 15071. 18762. 22060.

*) 13087 *AR*+1m; 2279 *AR*+1m; 19793 δ approximo, dupl. sq.; 3442 *AR*+1s.

№ des Catalogs.	
5855	648. 5304. 19732. 20633.
5856	5292. 20624.
5857	11571. 18574.
5858	11678. 11700. 11715. 11749. 18646.
5859	11679. 11701. 11716. 11750. 18647. 18673.
5860	741. 18744. 22027. 22044. 22077.
5861	21972. 21996.
5862	3385. 5939. 18575.
5863	742. 5236. 11784. 18745. 22028. 22045. 22078.
5864	14040. 14075. 19794.
5865	5305. 5968.
5866	11521. 14041. 14076. 19795.
5867	694. 5281. 5977. 20664. 22124.
5868	649. 5293. 20634.
5869	5200. 18691.
5870	495. 5217. 16045. 18712. 21289.
5871	11766. 13102. 19751. 19854.
5872	5227. 7219. 16021. 18733. 21973. 21997.
5873	726. 5248. 5261. 11767. 13093. 13103. 18763. 19752. 19855. 22061.
5874	2393. 16046.
5875	3443. 5904. 11522. 11635. 14099. 17249. 19874. 19900.
5876	5201. 18692.
5877	570. 4677. 5925. 11717. 11751. 18621. 19769. 19831. 19887.
5878	11702. 17302. 17337. 17347. 19815.
5879	743. 11785. 19842.
5880	603. 3429. 11609.
5881	11842. 18746. 22062.
5882	583. 3444. 4678. 5905. 11523. 11636. 11718. 14042. 14077. 16122. 17250. 18674 19832. 19875. 19888.
5883	21290.
5884	22029. 22079.
5885	11680. 11752. 18648.
5886	752. 5237. 11843. 13119. 18747. 22046. 22063.
5887	18576.
5888	11844. 13104. 18764. 19753. 19843. 22047. 22064. 22080.
5889	15072.
5890	11786. 11803. 11845. 22048. 22065. 22081.
5891	744. 5249.
5892	616. 5294. 5940. 11572. 11658. 17348. 18577. 19733.
5893	17251.
5894	548. 3430. 3450. 4668. 5926. 11610. 17265 17308. 17338. 18622. 19889. 19901.
5895	11681. 18649.
5896	11787.
5897	496. 2394. 5218. 7197. 16022. 16053. 18734. 21291.
5898	20608. 20625.
5899	21974. 21998.
5900	5238. 11804. 13120. 18748.
5901	549. 5927. 11611. 17304. 17339. 18623.
5902	685. 5271. 5969. 19856. 22125.
5903	571. 584. 3445. 4679. 5906. 11524. 11637. 11719. 14043. 14100. 17252. 18675. 19770. 19796. 19833. 19876.
5904	707. 727. 753. 5262. 15073. 18794. 20609. 20626.
5905	5202. 5228. 18693. 18713. 21975. 21999.
5906	5203. 18694. 18714. 21976. 22000.
5907	11788.
5908	668.
5909	20635.
5910	18811.
5911	745. 5250. 11805. 11846. 13105. 13109. 18765. 19754. 22030. 22049. 22066.
5912	5204. 5229. 7220. 13130. 16023*). 18695. 22082.
5913	11703. 13083.
5914	695. 5282. 5978. 11768. 13094. 18812. 22126.
5915	19902.
5916	650. 5272. 5306. 5958. 20636.
5917	7198. 13131. 16047. 21292. 22083.
5918	651. 5273. 5307. 5941. 5959. 20637.
5919	5230. 18735. 21977. 22001.
5920	708. 728. 5263. 15074. 18795. 20610. 20627
5921	604. 632. 3451. 5907. 11683. 16089. 17349. 18651. 19816.
5922	11789. 19844. 22067.
5923	560. 3431. 5928. 11612. 17253. 17305. 18624. 19771. 19903.
5924	11704. 13095. 19734.
5925	5970. 19857.
5926	4680. 11525. 11720. 14044. 19797. 19834.
5927	2395*). 5219. 15081. 16054. 16123. 18715.
5928	21293.
5929	652. 5274. 5942. 5960. 17366. 20638.
5930	572. 4669. 11579. 14101. 14115. 17306. 18676. 19772. 19877.
5931	14102. 14116.
5932	2490. 5205. 7199. 15082. 16024. 18696.
5933	550. 3432. 5929. 11613. 17254. 18625. 19904.
5934	2491. 15083. 16025.
5935	5308. 5943. 5961. 17367. 18578.
5936	13121.
5937	633. 3452. 5908. 11659. 11684. 11721. 11752. 16090. 17350. 18652. 19835.
5938	19858.
5939	746. 22050.
5940	11806. 16124. 18736. 19755. 22068.
5941	15075.
5942	754. 2396. 5220. 11769. 11807. 13110*). 13122. 16055. 16125. 18737. 19756. 19845. 22031. 22069.
5943	21978. 22002.
5944	4681. 14045. 14078. 19798. 19890.
5945	5231. 18749.
5946	18579. 20689.
5947	709. 5251. 5264. 18766. 18796. 20611.
5948	2492. 5206. 7200. 15084. 16026. 18697. 21294.
5949	573. 585. 605. 4670. 5909. 11638. 14103. 17266. 17307. 17340. 18626. 18677. 19817. 19878.
5950	18813.
5951	22127.
5952	669. 5275. 5971. 16126. 17368.
5953	16048. 21270. 21979. 22003.
5954	15085. 22070.
5955	22084.
5956	670. 5284. 5972. 18814. 19859.
5957	747. 13106. 19757. 22051.
5958	11573. 20628.
5959	14079. 14104. 19799. 19905.
5960	21271. 21980. 22004.
5961	11580. 11639. 18678. 19818.
5962	755. 2397. 5239. 13111. 15086. 18716. 22071.
5963	574. 4671. 5930. 11581. 11614. 11640. 15153. 16091. 17255. 17267. 17308. 17341. 17351. 18627. 18679. 19819. 19891.
5964	11754. 19836.
5965	2493. 5207. 7201. 13132. 16027. 16056. 18698. 21295. 22085.
5966	710. 729. 5252. 5265. 5979. 11705. 13084. 15076. 18767. 18797. 20612.
5967	686. 5285. 5973. 17369. 18815. 22128.
5968	13107. 22032.
5969	11790. 11847. 13123.
5970	18653.
5971	617. 634. 5295. 11574. 16127. 20629. 20640.
5972	3415. 5232. 7221. 16049. 18750. 21981.
5973	711. 730. 5253. 5266. 5980. 11706. 18768. 18798. 19860.
5974	2398. 5221. 5240. 11808. 13112. 15087. 18738. 19758. 19846. 22072.

*) 16023 *AR*—40^s; 2395 δ+10''; 13110 *AR*+0^s.02.

№ des Catalogs.	
5975	5276.
5976	21272. 21982. 22005.
5977	606*). 11722. 14046. 14080. 14105. 17256. 19837. 19879. 19906.
5978	5944. 11755.
5979	671. 5974. 16092. 16128. 18816. 22129.
5980	672. 5286. 16093. 16129. 18818. 22130.
5981	5296. 11756.
5982	5222. 7202. 16028. 18699. 19759. 21296. 22073. 22086.
5983	11809. 13113. 22087.
5984	17370.
5985	11685. 18654.
5986	20613.
5987	653. 5809. 5962.
5988	11582. 11615. 11660. 17309. 17342. 17352. 19820.
5989	575. 4682. 11583. 11616. 11661. 15154. 17310. 17343. 17353. 18628. 19773. 19821.
5990	18700.
5991	22052.
5992	586. 3453*). 5931. 11723. 14047. 14081. 14106. 17257. 19800. 19838. 19907.
5993	731. 5254. 5981. 18769. 19861. 22053.
5994	748. 11770. 11848. 13108. 22033.
5995	18655.
5996	635. 5297. 11575. 20641.
5997	16130. 18819. 22131.
5998	13133. 15088. 16050. 21273.
5999	22006.
6000	5810. 5963. 16094.
6001	636. 654. 5298. 5945. 11576. 20642.
6002	756. 5241. 11791. 11810. 11849. 13114. 13124. 18717. 18751. 19760. 22074.
6003	757. 5242. 11792. 11811. 11850. 13115. 13125. 18718. 18752. 19761. 22075.
6004	11686. 11757. 18656.
6005	11724. 14048. 14082. 14107. 19801. 19839. 19908.
6006	696*). 5267. 5982. 11707. 18799. 19862.
6007	673. 5277. 5975. 15077. 17371.
6008	22088.
6009	576. 4683. 5932. 11584. 11617. 17311. 18629. 19774. 19822.
6010	688. 5287. 18820. 22132.
6011	618. 5811. 5964. 17354.
6012	587. 3454. 11662. 19880.
6013	2399. 2494. 3416. 5208. 5223. 7203. 7222. 13134. 15089. 16029. 16051. 16057. 18701. 21297. 22089.
6014	607. 5910. 16095.
6015	561. 11641. 18680.
6016	758. 11812. 22034.
6017	11758. 18657.
6018	674. 5278. 5288. 5976. 15078. 16131.
6019	749. 5255. 11771. 18770. 22054.
6020	2495. 3417. 5209. 5224. 7204. 15090. 16030. 18702. 21298.
6021	2496. 3418. 5210. 5225. 7205. 15091. 16031. 16052. 18703. 21299.
6022	11687. 18658.
6023	655. 5312. 5465. 17372.
6024	5233. 7223. 16058. 21274.
6025	11793. 11851. 13116. 13126. 19762. 19847.
6026	18821.
6027	619. 637. 5299. 5946. 11577. 17355. 20643.
6028	11725. 19840.
6029	11852. 13117. 13127. 19763. 19848. 22035.
6030	13135. 18753. 22076.
6031	697. 732. 5268. 11708. 18800.
6032	11585. 11618. 19823.
6033	712.
6034	5256. 11772. 18771.
6035	11642. 18681.
6036	21983. 22007.
6037	14108. 17312. 19881. 19892. 19909.
6038	577. 588. 3446. 3455. 4684. 5911. 5933. 11663. 11723. 14083. 14109. 16096. 16132. 17313. 18630. 19802. 19882. 19893. 19910.
6039	2400. 3419. 5211. 15092. 16059. 18704. 18719.
6040	5983. 19863.
6041	578. 589. 3447. 3456. 4685. 5912. 5934. 11664. 11727. 14084. 14110. 16097. 16133. 17314. 18631. 19803. 19841. 19883. 19894. 19911.

*) 606 $\delta+20'$ o.″8; 3453 $\delta+3'$; 696 $\delta-1'$.

CATALOG-VERGLEICHUNGEN

I. VERGLEICHUNG MIT DEM MÜNCHENER STERNVERZEICHNISSE, I. BD.

Cat. №	Warsch. - München Δα	Δδ	ΔEp.
	0h		
	s	"	a a
2	−0.15	− 4.1	43.7; 46.5
3	−0.26	− 4.7	43.0
5	−0.05	+ 6.7	40.7
7	−0.16	− 0.4	39.3
8	−0.09	− 3.4	38.8: 37.1
9	−0.08	− 3.8	44.3
11	−0.12	+ 1.2	38.8; 40.3
13	+0.07	− 1.5	41.3
15	−0.16	− 1.4	36.8; 38.4
19	−0.08	− 1.8	38.0; 39.5
21	−0.06	− 4.7	45.3; 44.5
22	+0.53	− 2.7	39.5
26	−0.05	− 2.3	41.3
27	−0.04	− 1.0	39.6
30	−0.07	− 4 9	41.9
31	−0.05	+ 0.4	43.3
32	+0.53	− 3.6	46.1
39	−0.05	− 4.3	49.1
42	−0.56	− 3.4	43.2
44	−0.03	+ 2.6	43.1
45	−0.17	+ 3.0	40.8
51	−0.50	− 6.1	43.6; 46.8
53	−0.40	+ 0.1	41.0; 38.7
56	+0.18	− 2.9	43.5
58	−0.33	− 0.5	47.9
61	−0.12	+ 1.2	47.8
63	+0.01	+ 0.8	48.9
65	−0.01	− 4.4	43.0
68	−0.27	+ 5.6	44.1
71	−0.23	− 1.9	42.0
75	+0.20	− 9.0	43.7; 44.6
78	−0.08	− 1.3	40.7
81	−0.19	+ 2.3	50.0

Cat. №	Warsch. - München Δα	Δδ	ΔEp.
	s	"	a
84	−0.10	− 3.8	46.8
86	−0.13	− 0.7	41.8
90	+0.17	− 1.1	41.8
91	−0.13	− 4.8	47.0
95	−0.15	− 1.4	37.4
105	−0.24	− 4.3	41.9
108	+0.50	− 9.9	43.4
118	−0.01	− 6.6	45.9; 46.9
120	+0.18	+ 1.4	39.1
122	−0.11	+ 0.7	44.3
124	−0.09	− 8.3	45.5; 41.4
125	−0.74	− 8.7	50.5; 47.9
126	−0.12	− 1.1	35.8
149	−0.25	+ 5.4	35.8
157	−0.21	+ 0.3	39.9
	1h		
176	−0.32	− 4.4	38.3
184	−0.15	− 5.9	44.8
205	+0.04	− 2.4	43.8
245	+0.13	−11.1	46.4
281	−0.60	− 3.1	45.2
292	+0.19	− 2.4	46.3
295	−0.41	−20.1	46.5; 44.4
298	−0.12	− 5.3	44.8; 42.9
329	−0.09	+ 6.5	45.9
	2h		
356	−0.25	− 2.6	53.0
430	−0.20	− 4.1	45.7

Cat. №	Warsch. - München Δα	Δδ	ΔEp.
	s	"	a
453	−0.31	+ 0.1	53.1
464	−0.11	+ 6.9	43.3
479	+0.24	− 4.9	42.9
493	+0.12	+ 1.4	49.1
	3h		
511	−0.64	− 4.1	39.8
513	−0.64	− 0.4	44.5
517	−0.10	− 3.5	46.6
540	−0.22	− 1.4	42.1; 39.5
541	−0.13	− 4.5	44.9; 47.9
547	−0.29	− 4.2	46.4
549	−0.51	− 4.3	46.9
576	+0.01	− 6.7	46.6
580	−0.52	+ 0.6	45.3; 43.3
590	−0.06	− 8.0	46.2
591	−0.52	− 8.2	45.0
596	+0.02	− 6.8	44.1; 41.8
623	−0.13	− 2.6	43.6; 45.9
629	+0.25	+ 2.8	43.3
638	+0.05	− 4.5	37.9
655	+0.16	+ 4.1	53.0
659	−0.03	+ 0.1	46.3
667	+0.07	− 0.9	43.5
	4h		
690	+0.45	− 2.9	40.4
705	−0.36	−11.2	35.8
740	−0.18	+ 0.2	48.0
746	−0.14	− 4.6	46.0

Cat. №	Warsch. - München Δα	Δδ	ΔEp.
	s	"	a
761	+0.11	+ 0.5	40.4
787	−0.54	− 0.3	48.0
842	−0.41	− 5.1	43.7; 45.0
904	+0.40	− 5.6	52.0
	5h		
928	+0.24	− 5.2	49.3
933	+0.07	− 8.2	51.0; 50.1
989	−0.07	− 3.2	45.6
1025	−0.25	+ 0.1	45.0; 47.0
1051	−0.03	− 3.7	49.0
1055	−0.12	− 4.1	50.5; 48.1
1074	−0.15	− 2.7	48.3
1080	−0.12	+ 0.8	48.5
1094	+0.08	+ 1.7	45.2; 38.6
1099	−0.05	− 6.2	44.3; 45.5
1109	+0.10	− 6.6	48.0
1112	−0.29	− 1.5	48.0
1114	−0.01	− 1.2	47.6
1128	+0.08	− 3.7	46.6; 49.4
1136	−0.16	− 1.6	45.9; 43.5
1141	+0.04	− 2 2	46.3; 47.5
1178	+0.09	− 1.8	46.7
1183	+0.08	− 6.6	45.8; 48.5
1187	−0.12	− 1.1	48.0
1192	+0.22	+ 0.1	48.0
1198	−0.36	− 5.2	48.2
1226	−0.08	+ 3.0	46.2
1228	−0.30	+ 1.3	38.4
1233	−0.05	+ 0.1	45.8; 44.7
1236	−0.07	− 0.7	45.8
1241	−0.54	− 5.2	45.7

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a
1250	−0.32	− 0.2	50.6
1252	−0.07	+ 0.7	37.5
1253	−0.40	− 2.1	47.0; 44.9
1258	+0.40	+ 1.4	47.0; 45.0
1275	−0.53	− 0.1	51.9
	6h		
1290	−0.12	− 1.2	43.9
1295	−0.40	− 4.6	43.9; 43.0
1304	+0.39	+10.2	49.0
1305	−0.13	+ 3.2	43.5
1338	−0.10	− 3.9	51.9
1379	−0.07	0.0	48.0
1392	+0.04	− 5.9	49.0
1440	−0.05	+ 1.7	48.0
1458	+0.65	− 1.4	39.6
1466	−0.71	+ 2.6	48.0
1471	−0.47	− 2.2	47.0
1488	−0.51	+ 0.1	42.1
1504	+0.15	−12.3	47.1
1550	−0.33	− 1.6	49.1
1558	−0.23	− 0.3	44.9; 40.0
1563	0.00	0.0	44.8; 47.7
1576	−0.04	+ 1.5	37.4
1581	+0.46	+ 3.0	37.0
1586	−0.02	+ 2.4	41.0
1594	+0.29	− 5.6	38.0
1610	+0.08	− 3.8	43.8; 46.2
1614	−0.11	− 0.5	48.5
1617	−0.05	− 4.2	49.5
1622	+0.29	+ 1.5	41.5; 46.0
1627	+0.39	+ 2.3	41.0
1636	+0.12	− 2.5	41.5
1644	−0.23	− 7.6	47.5
1650	−0.03	− 1.0	39.7
1663	0.00	− 1.2	37.0
1667	−0.05	+ 9.6	44.4
1668	+0.17	− 9.4	39.0; 41.0
1672	−0.23	+ 1.5	48.0
	7h		
1727	−0.20	+ 3.0	38.0
1733	−0.05	+ 0.1	41.0
1747	−0.22	+ 5.8	41.0
1748	−0.11	+ 0.4	38.3
1757	−0.07	− 0.7	37.0
1764	+0.53	− 0.4	48.6
1772	−0.14	− 3.6	47.1
1777	−0.33	+ 0.8	42.2; 40.7
1778	+0.07	+ 0.1	47.1
1787	+0.20	− 4.9	32.9
1818	−0.24	+ 2.9	41.0
1822	−0.37	− 6.7	47.1
1831	+0.07	+ 7.5	39.5
1836	−0.39	− 4.5	47.1
1838	+0.15	+ 1.2	38.0
1856	−0.21	− 2.1	40.0; 38.0
1860	−0.51	+ 8.5	40.0
1865	−0.19	+ 3.8	41.0
1866	−0.19	+ 4.1	39.7; 37.0
1868	−0.57	− 3.5	39.5
1871	−0.20	0.0	36.0
1874	+0.01	− 1.7	39.5
1882	−0.15	+ 3.0	41.0
1886	−0.18	+ 9.1	41.0
1891	−0.44	− 2.6	39.5
1902	−0.35	− 0.6	40.0
1930	+0.04	− 0.3	39.5; 38.0
1931	−0.24	+ 0.5	38.0
1947	−0.06	+ 3.3	38.0
1954	−0.36	+ 2.7	39.7
1960	−0.02	+ 5.1	39.7
1973	+0.02	− 0.8	48.6
2000	−0.43	+ 1.8	42.1
2003	−0.12	− 2.7	47.5
2015	−0.07	+ 8.3	41.0
2020	−0.12	− 0.7	38.6
2024	−0.04	+ 2.6	42.7
2030	−0.27	− 0.4	41.0
2061	0.00	− 2.9	45.5
2075	−0.07	+ 3.2	41.0
2083	−0.28	+ 1.4	38.0
2088	−0.03	− 1.3	39.0
	8h		
2102	+0.03	− 0.6	39.0
2112	−0.39	+ 4.6	41.3; 43.5
2116	−0.13	+ 1.1	39.4
2122	+0.54	− 3.1	39.5
2125	−0.20	+ 1.5	43.0; 44.0
2127	−0.28	+ 1.5	38.5
2137	−0.26	+ 1.0	52.0
2144	−0.09	+ 7.3	26.3; 24.0
2150	−0.22	+ 0.7	42.2
2155	−0.43	+ 9.8	41.4
2159	−0.19	+ 2.0	41.0; 39.0
2160	−0.10	+ 4.3	37.0
2161	+0.09	− 2.0	41.6
2164	+0.07	+ 3.0	23.5
2166	−0.03	+ 1.9	27.6
2170	+0.09	+ 1.2	28.5
2176	−0.25	− 0.1	31.7
2180	−0.11	+ 4.6	40.8
2183	−0.33	− 2.5	25.0
2186	−0.20	+ 4.0	38.6
2192	−0.08	− 1.6	28.7
2196	−0.21	− 0.7	25.0
2200	+0.07	+ 0.4	28.3
2202	−0.46	+ 3.7	37.8
2208	−0.27	− 4.0	45.8
2218	+0.01	+ 0.9	25.0
2220	−0.01	+ 2.9	28.0
2221	+0.17	− 1.0	32.0
2227	−0.12	+ 1.2	28.5
2231	−0.06	− 5.1	40.8
2236	−0.05	− 1.6	29.7; 28.5
2237	+0.46	+12.0	24.5
2245	−0.34	− 1.2	40.0
2246	−0.27	+ 0.4	42.7
2249	−0.14	+ 1.2	33.0
2250	−0.17	+ 4.4	40.0
2253	−0.10	+ 2.0	33.0
2254	−0.66	+ 4.9	33.0
2256	−0.18	+ 0.8	31.0; 25.0
2257	−0.59	+ 3.6	38.0
2258	+0.02	+ 5.3	41.8
2259	+0.37	− 0.1	37.2
2261	+0.65	− 1.5	28.0
2262	+0.91	+ 4.6	38.0
2268	+0.07	+ 2.4	42.7; 44.0
2270	−0.99	+ 4.1	39.0
2271	−0.10	+ 4.0	30.8
2272	−1.08	+ 2.2	38.1
2273	−0.42	− 4.5	35.0
2274	−0.51	+ 3.7	40.0
2275	−0.27	− 0.1	29.1
2276	+0.26	− 1.4	42.9
2279	0.00	+ 1.6	34.2; 36.0
2283	+0.18	− 1.9	41.8; 40.0
2284	−0.52	+ 3.8	41.0
2285	−0.70	+ 1.7	38.1
2288	0.00	− 2.6	51.5
2289	−0.08	+ 5.2	26.5
2290	−0.12	+ 4.2	33.0
2291	−0.25	+ 3.8	30.5
2292	−0.20	− 0.5	44.8
2295	−0.22	+ 2.9	33.3; 31.4
2296	−0.28	− 5.6	30.5; 32.5
2297	−0.76	+ 1.1	41.7
2300	−0.31	− 0.6	28.9
2302	−0.22	+ 1.7	33.0
2303	−0.38	− 0.1	37.0
2304	+0.34	− 3.8	51.0
2309	−0.11	+ 0.8	41.0
2311	−0.59	+ 1.6	39.0
2312	−0.07	+ 0.3	45.5
2316	+0.41	− 4.1	36.6
2317	−0.31	+ 1.8	34.0
2318	−0.21	+ 4.5	37.1
2322	−0.12	+ 3.1	41.8
2323	+0.06	+ 0.1	45.0
2327	0.00	− 2.3	42.6
2328	+0.02	− 6.3	48.0
2334	−0.11	+ 4.7	37.5
2335	−0.07	+ 2.0	43.0
2337	−0.61	+ 1.5	41.2; 38.1
2338	−0.42	− 1.2	41.5; 43.0
2339	−0.28	0.0	39.5
2340	−0.34	− 0.5	25.0
2341	+0.22	0.0	48.0
2346	+0.37	+ 0.4	39.1
2347	−0.37	− 1.3	40.5
2352	+0.40	+ 0.7	46.0
2354	+0.07	+ 0.7	27.0
2355	+0.24	− 1.7	39.9
2356	−0.17	0.0	45.0
2358	−0.20	+ 3.1	24.0
2359	−0.07	− 0.4	38.6
2360	+0.17	− 3.4	40.0
2364	−0.04	+ 0.3	41.5
2365	−0.10	− 2.1	33.0
2368	−0.24	+ 6.8	31.8
2369	−0.62	− 0.5	42.0
2372	−0.33	+ 6.0	44.3
2374	+0.08	+ 2.5	39.0
2375	+0.70	+ 3.5	43.2; 41.7
2376	+0.03	+ 2.9	39.3
2378	−0.65	+11.4	38.0; 41.1
2381	+0.08	+ 3.3	36.2; 35.3
2383	+0.04	+ 3.7	42.6; 40.6
2385	−0.12	+ 3.6	32.0
2387	−0.23	+ 1.1	25.0
2388	−0.27	− 3.9	48.2
2389	−0.20	+ 2.3	41.0
2390	−0.01	+ 1.0	40.0
2392	−0.09	− 3.0	46.4
	9h		
2401	−0.06	− 5.1	40.0
2402	−0.04	− 7.2	37.5
2404	+0.12	− 9.3	45.1
2405	+0.14	− 1.9	45.0
2407	+0.33	− 1.8	39.9
2408	−0.06	− 3.1	25.0
2409	−0.03	− 3.2	46.5
2411	−0.07	− 7.3	12.5
2412	−0.15	+ 3.0	40.5
2413	+0.01	− 1.8	40.0
2419	−0.02	+ 3.3	42.9; 40.8
2420	−0.21	− 5.1	15.3
2421	−0.17	− 3.2	15.9
2426	+0.22	− 2.7	37.4
2427	+0.09	− 3.4	37.0
2428	−0.24	− 0.9	25.0
2431	0.00	+ 0.2	24.9
2432	+0.18	− 3.3	45.0
2433	−0.07	− 3.0	44.6
2434	−0.10	− 1.4	42.1
2435	−0.09	+ 1.3	21.1
2436	+0.37	− 0.2	22.0
2437	+0.04	− 4.3	27.5
2439	+0.03	+ 4.0	24.7
2440	−0.13	+ 2.7	51.0
2441	−0.10	+ 0.2	41.0
2442	+0.11	− 1.6	29.9
2444	−0.13	+ 3.4	41.0
2448	−0.13	− 0.3	23.0
2449	−0.26	0.0	9.9
2451	−0.31	+ 2.3	31.0
2453	−0.29	+ 0.2	45.0
2454	−0.21	− 2.7	17.3
2455	−0.27	+ 6.3	43.4; 42.0
2458	−0.09	+ 1.9	20.0
2459	−0.43	− 3.7	9.9
2460	−0.22	− 0.5	9.9
2461	−0.06	− 1.2	29.6
2462	−0.11	− 0.4	29.6
2463	−0.17	+ 3.2	14.0
2464	−0.21	− 2.7	18.3
2465	−0.03	− 1.9	36.1
2466	−0.18	− 0.7	30.0
2467	−0.29	− 6.6	9.9
2469	−0.20	+ 4.9	22.3
2470	+0.03	− 1.5	40.7; 36.6
2471	+0.08	− 1.4	40.7; 49.0
2472	−0.21	+ 4.6	41.1
2473	−0.37	− 8.5	14.0
2475	−0.38	− 4.2	15.0
2476	+0.28	− 5.0	28.9
2477	+0.37	− 0.3	40.1
2478	+0.29	− 0.9	43.5
2479	+0.45	+ 0.2	45.0
2481	+0.08	+ 7.1	41.6
2482	+0.02	− 4.3	19.0
2483	−0.12	− 5.6	22.6
2484	+0.18	− 0.2	42.1
2485	−0.17	+ 2.5	15.5
2488	−0.29	− 6.2	17.0
2489	0.00	− 0.7	27.0
2490	0.00	− 0.1	36.1
2491	+0.15	+ 0.8	49.1
2492	+0.05	− 0.3	27.9
2493	+0.37	+ 1.8	49.0
2494	−0.07	− 4.8	20.9
2495	−0.28	− 6.2	27.9
2496	+0.21	− 4.4	46.0
2498	−0.08	− 1.7	43.3
2499	−0.09	− 6.8	25.3
2501	−0.19	− 1.8	25.0
2502	−0.39	− 2.5	12.5
2503	−0.08	− 3.9	17.1; 15.9
2504	−0.49	+ 2.8	43.5; 42.0
2506	−0.40	− 7.9	51.0
2507	+0.04	+ 2.0	49.0
2508	−0.08	− 5.8	18.9
2509	−0.32	+ 2.3	24.9

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
2510	+0.02	+ 1.6	39.7
2513	+0.05	− 1.4	45.1
2515	−0.11	+ 0.9	31.9; 30.9
2519	−0.04	− 3.1	30.4
2521	−0.52	− 4.0	42.1
2523	−0.23	+ 1.7	39.1
2524	+0.02	− 0.7	41.6
2526	−0.33	− 1.7	9.0
2529	−0.06	0.0	30.8
2531	−0.07	+ 1.6	28.3
2532	+0.36	− 2.1	43.1
2535	−0.09	+ 3.7	41.5
2536	−0.49	− 4.6	22.0
2538	0.33	+ 3.0	48.0
2539	−0.22	− 1.8	18.9
2540	−0.17	+ 2.0	33.9
2541	−0.08	− 4.5	49.0
2542	+0.01	− 1.3	42.1
2543	+0.17	− 0.3	28.2
2545	−0.03	− 2.2	15.9
2546	+0.01	− 3.1	29.3
2547	−0.10	+ 3.0	22.9
2550	−0.12	+ 0.1	36.3
2551	+0.10	− 5.8	21.4
2553	−0.10	+ 2.8	41.1
2558	−0.19	+ 0.7	41.7
2559	+0.07	+ 2.4	23.0
2560	−0.01	− 2.8	30.6; 27.0
2562	+0.16	+ 1.0	30.4; 32.6
2563	+0.09	+ 0.4	41.1
2564	+0.09	− 1.8	28.3; 25.0
2565	+0.11	− 3.4	28.5; 34.9
2566	−0.19	− 7.4	42.6
2567	−0.03	+ 1.0	49.0
2568	+0.06	− 1.5	33.4
2569	−0.04	− 0.8	43.6
2570	−0.22	− 1.0	21.3
2571	−0.07	− 3.6	36.9
2572	−0.24	+ 0.1	27.6
2574	−0.05	− 6.7	37.6
2575	−0.18	+ 3.1	43.1; 40.1
2576	+0.32	− 1.0	42.0
2577	+0.02	− 4.3	41.0
2578	+0.11	− 1.2	27.2
2579	+0.06	− 2.6	41.5; 34.1
2580	−0.21	− 5.2	15.2; 16.9
2581	−0.07	+ 4.0	47.0
2582	−0.12	+ 2.1	29.6
2583	+0.26	− 0.6	43.5; 41.7
2585	−0.28	− 3.8	13.5
2586	+0.08	− 2.0	41.6
2588	−0.12	− 2.1	28.0
2589	−0.24	− 2.6	20.9
2590	+0.04	− 0.9	29.5
2591	−0.34	− 2.1	49.0
2593	−0.09	− 2.1	43.2
2594	−0.11	− 4.1	18.0
2595	−0.15	− 1.5	41.3
2596	−0.09	+ 0.7	27.6
2597	−0.04	− 2.9	16.4; 13.6
2598	−0.01	− 1.7	44.6
2600	−0.04	− 4.3	20.5
2602	−0.17	0.0	40.5; 37.8
2606	−0.04	− 1.2	14.9; 16.2
2607	+0.09	+ 1.9	31.3
2608	−0.22	+ 0.5	32.9
2610	+0.04	+ 1.3	43.9
2611	0.00	− 3.7	19.5
2613	−0.26	+ 1.9	43.6
2614	+0.33	− 5.3	31.1

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
2615	+0.06	+ 2.7	42.9
2616	−0.22	+ 2.1	38.1
	10h		
2617	−0.12	− 5.6	43.1
2618	−0.21	− 0.3	38.8
2619	−0.25	− 1.6	17.0
2620	−0.30	− 3.6	22.6
2621	−0.13	+ 2.9	39.8
2622	−0.59	+ 1.2	18.0; 19.0
2623	−0.24	− 0.3	29.2
2625	−0.06	− 0.5	42.6
2626	−0.27	− 0.6	30.9
2629	+0.03	+ 1.0	39.4
2630	−0.45	−11.1	47.1
2631	−0.33	− 3.9	18.0
2632	+0.17	− 4.6	31.2
2633	+0.01	− 2.0	16.7
2634	−0.26	+ 0.9	28.5
2635	−0.13	− 0.6	28.9
2636	−0.09	− 5.3	18.0
2637	−0.08	− 2.0	27.6
2638	−0.28	+ 0.3	28.5
2639	−0.38	− 6.6	11.0
2641	−0.10	− 1.7	17.6
2642	−0.06	− 2.2	18.3
2643	−0.36	− 1.7	21.5
2644	−0.04	+ 0.6	39.1
2646	−0.28	+ 1.3	41.4
2647	−0.03	− 4.7	33.2
2648	+0.02	− 2.0	39.4
2649	−0.24	− 0.4	44.8
2650	−0.24	− 2.7	15.0
2651	+0.16	− 4.1	21.5
2652	−0.16	+ 0.2	36.7
2653	−0.38	− 2.5	41.1
2654	−0.28	− 9.5	16.0
2657	−0.30	+ 4.2	30.3
2659	−0.16	+ 3.4	43.7
2660	−0.03	− 5.5	25.8; 27.2
2662	+0.03	+ 1.4	36.7
2663	−0.04	− 3.1	19.8; 16.0
2664	−0.10	+ 1.2	42.1
2665	−0.10	− 3.2	15.3
2666	+0.02	− 0.7	21.8
2667	+0.05	+ 2.3	42.3
2669	−0.08	+ 1.3	50.2
2670	−0.09	+ 1.3	33.5
2673	0.00	0.0	38.7; 35.4
2674	−0.15	− 6.7	23.8
2676	−0.21	+ 5.5	45.1
2678	−0.38	− 5.0	22.5; 17.0
2679	+0.02	− 1.1	23.3
2680	−0.20	+ 1.3	24.5
2682	+0.09	− 4.9	17.0
2683	+0.04	−13.2	37.2
2684	+0.06	+ 3.2	23.7
2686	−0.05	− 5.5	21.5
2688	−0.06	− 5.4	21.3
2694	+0.09	− 3.8	24.0
2695	−0.51	− 4.9	44.5
2696	−0.12	− 5.9	18.3
2698	−0.08	− 1.1	17.0
2701	−0.55	− 4.1	41.8
2703	−0.04	− 4.1	14.0
2704	−0.16	− 3.4	36.5
2705	−0.15	− 2.7	22.5
2708	−0.11	− 7.5	36.0
2709	−0.09	− 7.1	18.6

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
2711	+0.02	− 7.4	17.0
2716*)	−0.52	+ 7.5	43.8
2717	−0.09	− 4.1	21.1
2720	−0.23	−11.8	25.0
2721	−0.14	+ 1.1	30.2
2723	−0.05	− 1.4	24.8
2726	+0.17	− 3.6	41.0
2728	−0.23	− 6.3	20.8
2729	+0.02	− 8.3	12.5
2733	−0.02	− 3.5	17.8
2734	+0.32	− 5.2	26.0
2736	−0.21	− 6.5	17.0
2739	−0.23	− 3.6	22.2
2740	−0.08	− 4.0	23.0
2741	−0.02	− 4.6	38.6
2744	−0.03	− 5.2	17.5
2745	−0.15	− 4.0	43.0
2746	−0.04	− 3.4	17.0; 18.1
2747	−0.20	− 4.6	40.3
2749	+0.09	− 4.2	33.9
2751	−0.14	− 0.9	24.8; 25.6
2752	−0.17	− 1.0	42.2
2753	+0.13	− 4.3	23.2; 26.0
2755	+0.40	+ 3.5	34.0
2757	−0.19	− 4.0	44.6; 42.6
2760	+0.16	− 2.4	45.9; 47.9
2761	−0.10	− 8.4	26.0; 19.3
2764	−0.04	− 4.7	30.0
2765	−0.20	0.0	37.2
2766	−0.21	−11.6	26.7; 25.0
2768	−0.15	− 2.6	28.7; 30.5
2770	−0.13	− 3.6	41.0; 42.0
2771	0.00	+ 1.5	41.7
2772	+0.08	− 3.3	40.7
2775	+0.10	− 5.2	46.1
2776	−0.12	+ 1.3	29.0
2778	+0.02	− 3.2	41.7
2779	+0.02	+ 4.8	24.0
2781	−0.25	+ 1.8	42.3
2782	−0.13	− 0.8	30.0
2783	−0.16	− 4.3	21.0
2784	−0.20	− 1.2	28.0
2785	−0.16	− 5.8	19.5
2786	−0.25	− 3.1	43.7
2787	+0.22	+ 2.2	41.4
2788	−0.17	− 1.0	18.0
2789	+0.04	− 5.3	20.9
2791	−0.27	− 1.7	43.8
2792	+0.12	− 5.1	42.2
2795	−0.24	− 5.9	16.2
2796	−0.07	− 3.4	17.8
2797	+0.10	− 3.9	35.9
2799	+0.01	+ 0.4	43.5
2800	+0.04	− 2.6	36.8
2801	+0.16	0.0	41.5
2802	−0.10	− 7.2	23.3
2803	+0.04	− 3.6	39.5
2804	+0.03	− 2.5	36.7
2805	−0.12	− 5.3	16.9
2807	−0.12	− 7.9	27.3
	11h		
2808	−0.08	+ 2.0	28.6
2809	+0.07	− 1.9	46.0
2811	−0.03	− 3.7	28.5
2812	−0.03	− 0.3	28.0
2813	−0.02	− 1.9	42.5
2814	+0.18	− 3.8	41.3
2816	−0.14	− 7.6	17.3

Cat. №	Warsch. - München Δα	Δδ	Δ Ep
	s	″	a
2817	−0.59	− 4.2	37.2
2818	−0.14	+ 1.2	29.6
2819	−0.01	+ 3.3	41.5
2820	+0.04	− 1.5	21.5
2821	−0.07	− 2.9	18.8
2822	−0.10	− 3.4	17.6
2823	−0.07	− 4.5	40.8
2824	+0.38	− 1.7	46.7
2825	+0.16	+ 2.9	43.0
2826	−0.08	− 3.8	18.0
2827	+0.15	+ 1.9	42.3
2828	−0.27	+ 2.6	46.7
2829	+0.17	− 7.9	22.2
2831	+0.15	+ 0.4	48.0
2832	+0.04	− 4.9	39.9
2833	−0.13	− 7.3	25.7
2835	−0.25	− 3.5	21.6; 20.2
2840	+0.02	− 2.1	25.5; 27.0
2841	−0.04	− 1.7	43.2
2843	+0.07	− 0.5	43.6
2844	−0.22	− 0.6	19.2
2845	−0.20	+ 2.4	40.2; 37.3
2846	−0.19	− 2.1	41.6; 44.6
2847	−0.08	− 1.6	20.0
2848	−0.04	− 5.0	40.1
2849	+1.59	− 5.2	30.2
2850	−0.01	− 5.0	18.2
2852	+0.08	+ 0.3	24.5
2853	+0.12	+ 0.3	48.0
2854	+0.32	− 1.2	37.0
2855	−0.24	+ 0.6	17.0
2858	−0.24	− 2.9	41.5
2859	0.00	− 3.8	27.4
2860	+0.05	− 3.8	40.5
2861	−0.11	− 2.0	32.1
2862	+0.02	− 4.9	29.2
2863	+0.27	− 4.6	42.1; 39.7
2864	+0.05	+ 0.8	48.5
2865	−0.12	− 8.0	42.7; 43.8
2866	−0.12	− 1.1	39.2
2867	−0.27	− 6.2	23.5
2868	−0.52	+10.3	44.0
2869	−0.26	− 4.6	43.0
2870	−0.50	− 0.2	38.1
2871	+0.20	+ 3.2	44.5
2872	+0.04	− 7.3	21.5
2873	+0.25	− 4.9	46.3
2874	−0.11	− 0.9	38.6
2876	−0.15	− 9.5	47.2
2877	−0.20	− 1.6	35.0
2879	+0.15	− 1.7	42.5
2880	−0.02	+ 4.5	34.5
2881	+0.35	− 6.0	50.0
2882	−0.09	+ 0.7	21.3
2883	+0.07	− 5.0	32.5
2885	−0.12	− 3.1	22.7; 21.5
2886	−0.16	− 6.1	18.3
2887	−0.30	− 4.8	43.5; 35.0
2888	−0.12	− 0.9	38.8
2889	+0.10	+ 1.5	49.5
2891	−0.18	− 0.5	28.7; 30.3
2892	−0.10	− 1.1	25.5
2893	−0.26	− 5.1	30.7
2894	−0.22	− 3.9	49.0
2895	−0.38	+ 0.4	25.1; 21.7
2896	−0.24	− 0.3	29.2; 26.2
2897	−0.29	− 0.9	15.0
2898	−0.12	− 3.6	42.2
2899	−0.03	− 0.9	43.5
2900	+0.17	+ 2.1	45.5

*) 2716 m. p. — 0″.157 *Bauschinger*. Ableitung der Eigenbewegung von 90 telescopischen Sternen. Münchener Neue Annalen. Bd. II. № 23.

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a a
2901	+0.12	− 2.0	35.6; 32.1
2902	−0.33	− 0.7	29.5
2903	−0.18	− 2.5	27.9; 26.2
2904	−0.17	− 6.0	50.5
2905	−0.03	− 3.3	29.8; 32.1
2906	+0.25	− 5.5	40.9
2907	−0.16	+ 1.4	27.9
2908	+0.03	− 3.8	41.7
2909	−0.22	− 2.8	45.5
2910	−0.02	+ 0.1	46.3; 44.0
2911	−0.38	− 5.3	32.7
2912	−0.41	− 8.5	45.1; 46.2
2913	+0.07	− 0.5	46.8
2915	−0.11	− 1.4	17.3
2916	+0.46	− 2.5	43.3
2917	−0.25	+ 0.3	41.5
2919	−0.32	− 0.2	46.8
2921	−0.08	+ 0.8	43.5
2922	+0.00	+ 6.6	45.3
2923	−0.29	+ 1.4	33.0
2924	−0.18	+ 2.6	43.2; 44.0
2925	+0.17	− 4.7	46.8
2926	+0.07	− 3.0	31.5; 30.5
2927	−0.37	− 6.2	39.5
2928	−0.38	− 3.1	35.0
2929	−0.27	− 4.5	16.5
2930	−0.17	− 3.4	42.4
2931	−0.47	− 2.9	45.3; 42.8
2932	−0.28	− 4.4	17.7; 19.5
2933	−0.07	− 4.0	19.6
2934	−0.04	+ 1.6	43.3
2935	+0.09	− 2.4	42.0
2936	+0.08	− 4.3	40.0
2937	−0.24	− 0.3	27.6
2938	+0.71	− 7.5	46.0
2939	−0.22	− 3.9	32.0
2940	−0.17	− 2.9	29.0; 27.4
2941	−0.14	− 1.7	25.7; 29.6
2942	−0.14	− 5.4	50.0
2943	+0.13	− 2.7	42.7
2944	−0.27	− 3.4	20.0
2945	−0.10	− 1.1	42.7
2946	−0.33	+ 2.4	42.2
2947	−0.44	− 3.4	50.0
2948	−0.25	− 2.4	45.0
2949	−0.45	− 1.8	30.7
2950	−0.42	− 1.8	41.5; 44.0
2951	−0.14	− 5.0	29.7
2953	+0.13	− 0.2	45.6
2955	−0.14	+ 1.1	46.0
2956	−0.06	− 4.7	46.3
2957	−0.05	+ 0.9	43.8
2959	+0.07	− 6.1	43.4
2960	−0.20	− 1.9	42.3
2961	−0.41	− 3.6	43.3
2963	−0.16	− 1.9	36.5
2967	+0.27	+ 4.0	43.5; 35.1
2968	−0.11	+ 0.3	38.5
2969	−0.33	− 5.0	42.3
2970	−0.14	− 8.7	46.4
2971	−0.33	− 1.4	35.5
2973	−0.29	+ 0.1	41.5
2676	−0.17	+ 2.7	44.2
2977	+0.20	− 3.2	35.0
2978	+0.25	− 6.1	44.2
2980	−0.30	− 1.6	43.1
2981	−0.31	− 4.7	41.7
2982	−0.41	−14.3	51.0
2983	−0.20	− 1.3	29.7
2985	+0.20	− 4.7	47.9

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
2986	+0.05	− 3.5	30.8
2988	−0.20	− 0.4	45.8
2989	−0.27	− 3.1	41.5
2990	+0.07	− 9.7	41.6
2991	−0.22	− 1.6	30.2
2992	+0.01	− 3.8	48.2
2993	−0.10	− 0.3	47.2
2994	−0.15	− 1.3	29.4; 28.6
2995	−0.09	− 0.9	36.7
2996	−0.06	− 0.9	29.5; 30.8
2998	+0.31	− 3.1	43.4
		12^h	
2999	+0.03	− 1.4	50.0
3001	−0.13	− 0.1	28.0
3002	−0.01	− 7.9	25.5
3003	+0.05	+ 2.2	42.9; 39.3
3005	+0.33	− 4.3	39.4
3006	+0.04	− 3.7	46.0
3007	−0.03	− 3.2	43.3; 42.5
3008	−0.20	− 4.2	41.3; 42.0
3009	−0.32	+ 1.6	46.0
3012	+0.04	+ 0.3	43.0
3014	−0.18	− 0.5	43.3
3015	−0.37	− 0.6	49.9
3017	+0.23	− 4.1	43.3
3018	−0.01	− 3.1	30.5
3019	−0.09	+ 1.5	46.0
3020	−0.88	− 2.5	39.8
3021	+0.09	− 5.6	39.5
3022	−0.21	− 6.5	43.8; 44.7
3023	+0.05	− 2.8	43.5
3024*)	−1.72	+13.9	43.4
3025	+0.03	+ 1.6	43.7
3027	−0.24	+ 1.7	27.7
3029	+0.05	− 2.2	45.9
3030	−0.21	+ 0.1	30.0
3031	−0.08	− 4.8	38.7
3032	−0.03	− 8.9	47.5
3033	−0.24	− 2.8	43.5; 42.7
3034	+0.28	− 6.6	41.4
3036	+0.03	+ 1.0	37.1; 38.5
3038	−0.38	+ 4.8	46.0
3039	−0.29	− 1.1	36.9
3040	−0.06	− 1.1	45.2; 47.7
3041	−0.01	+ 1.7	45.2; 41.5
3043	+0.05	− 4.2	31.1
3044	+0.32	− 4.4	43.2; 40.6
3045	+0.01	− 5.9	45.0
3046	−0.08	− 2.3	37.8
3047	+0.47	− 0.7	48.7
3050	−0.07	− 0.2	44.5; 43.4
3052	−0.23	− 8.1	44.4
3054	+0.14	− 1.1	52.0
3055	−0.18	− 3.6	44.9; 46.6
3056	+0.28	+ 6.0	46.0
3057	−0.14	− 0.6	29.6
3058	−0.19	+ 0.5	31.0
3059	−0.05	− 1.6	44.0
3060	−0.48	− 2.0	46.1
3061	−0.21	− 3.0	46.8
3062	−0.15	+ 5.5	46.0
3063	0.00	− 1.0	27.8
3064	+0.06	− 3.9	43.8
3067	−0.22	+ 2.3	36.7
3070	+0.01	− 0.2	38.6
3073	−0.15	− 2.8	39.8
3074	−0.27	− 1.1	45.0
3077	−0.02	− 1.7	29.2

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3080	+0.64	− 7.0	47.9
3082	+0.04	− 6.1	41.5
3083	+0.12	− 5.6	45.5
3085	−0.35	− 2.8	34.0
3087	+0.25	− 4.7	39.0
3089	+1.13	− 6.0	43.1
3090	−0.16	+ 1.4	38.5
3092	−0.31	− 2.7	28.8
3093	−0.63	− 1.7	44.0
3094	−0.22	− 3.8	27.6; 28.8
3095	−0.45	− 1.4	41.9
3099	−0.16	+ 1.1	40.5
3100	−0.27	−11.0	43.3; 44.7
3101	−0.12	+ 0.3	30.9
3102	−0.62	− 3.7	41.7
3103	−0.11	+ 2.0	31.0
3105	−0.22	+ 1.5	31.7
3108	−0.16	− 3.3	46.0
3109	+0.32	− 8.6	41.7; 43.0
3110	−0.06	− 2.2	39.8; 40.9
3111	−0.49	− 4.0	47.5
3112	+0.05	− 4.3	42.8
3114	+0.11	− 3.3	40.5
3115	−0.04	− 1.3	41.6
3116	−0.14	+ 1.5	41.8
3117	+0.05	+ 2.1	40.2; 42.4
3119	+0.02	− 4.5	46.0
3120	−0.11	− 9.5	42.5
3122	+0.65	+ 4.5	46.0
3123	+0.39	− 3.6	46.7
3124	−0.18	− 1.6	42.1
3129	−0.10	− 3.2	39.7
3135	+0.12	− 5.1	43.0; 42.2
3137	+0.17	− 3.7	49.0
3138	+0.24	− 3.9	46.8
3141	−0.52	− 2.7	46.0
3148	−0.31	− 0.9	49.4
3149	+0.06	− 4.2	42.6; 43.8
3151	−0.08	− 4.5	36.9
3155	+0.12	− 5.5	41.7
3159	−0.58	− 0.9	46.0
3160	−0.25	+ 0.4	44.3; 45.4
3162	−0.30	− 8.6	46.9
3165	−0.25	− 1.3	43.6
3167	−0.09	− 2.8	18.4; 17.0
3168	−0.85	− 1.1	46.0
3169	−0.16	+ 0.1	18.6; 20.2
3170	−0.18	− 3.9	48.6
3171	−0.35	− 5.0	43.0; 37.0
3172	−0.41	− 6.8	45.2
3175	−0.06	0.0	45.0; 46.6
3178	−0.57	− 3.2	43.8; 45.2
3180	−0.20	+ 2.8	45.3
3181	−0.62	− 4.9	41.8
3183	+0.03	− 7.9	41.3
3186	+0.39	− 0.9	49.0
3187	−0.31	− 3.3	40.7
3188	−0.43	− 1.5	43.2; 41.7
3191	−0.19	+ 3.2	46.0
3193	−0.17	+ 4.3	46.0
3195	−0.12	−22.7	40.8; 42.3
3199	−0.40	+ 1.4	40.7; 38.7
3201	−0.21	− 2.7	39.9; 38.0
3203	+0.21	+ 4.4	48.5
3207	+0.34	− 1.5	10.0
3209	+0.08	− 7.0	39.9
3210	−0.51	− 1.4	42.2; 41.2
3211	−0.24	+ 0.4	41.9
3216	−0.15	− 5.8	39.1
3217	+0.44	− 5.5	42.3; 45.9

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
		13^h	
	s	″	a
3220	−0.39	− 6.8	42.2
3221	+0.05	− 3.0	44.0
3223	+0.26	− 3.5	41.7; 40.4
3228	+0.32	− 0.1	46.0
3230	+0.14	−10.3	43.4
3231	−0.06	− 0.6	35.9
3232	−0.02	− 4.6	46.0
3233	−0.17	− 4.9	39.7
3236	−0.01	− 9.9	37.5
3239	+0.20	− 0.4	33.5
3241	−0.08	+ 0.3	42.0
3242	−0.13	− 9.7	43.0
3244	−0.05	− 3.2	40.4
3245	−0.05	− 2.7	40.7
3248	−0.35	− 3.0	37.0
3249	−0.23	− 7.6	44.9
3250	−0.09	+ 4.5	46.0
3252	−0.61	− 4.4	45.7
3255	−0.23	− 5.9	44.5; 43.6
3261	−0.18	− 4.6	44.8
3266	+0.17	− 7.5	44.7
3267	−0.26	− 2.1	49.3
3268	−0.44	− 1.4	44.6
3269	−0.16	+ 0.3	20.9
3271	−0.16	− 5.7	44.9
3273	−0.39	+ 0.7	50.1
3277	−0.16	− 5.5	45.0
3279	−0.21	+ 1.1	46.0
3280	−0.32	− 9.1	44.9; 43.6
3287	−0.01	+ 0.7	19.6
3288	0.00	− 7.1	42.4
3293	+0.37	− 1.2	46.0
3295	−0.19	− 1.2	42.0
3299	−0.15	− 6.1	49.0
3301	+0.27	− 6.2	30.4
3303	−0.18	− 6.5	40.2; 38.7
3304	−0.55	− 5.0	46.6
3305	−0.16	− 1.9	41.7
3312	+0.08	− 8.2	41.1
3313	+0.07	− 5.2	33.0
3317	−0.35	− 7.1	45.6; 46.5
3318	−0.08	− 5.1	44.5
3320	−0.12	− 4.1	43.1
3322	−0.15	− 1.5	29.7
3323	−0.04	− 5.8	43.1; 44.6
3327	−0.26	− 1.6	38.0
3328	−0.15	− 3.9	43.8
3334	−0.08	− 3.9	40.4
3336	+0.09	− 4.3	41.4
3337	−0.34	− 6.9	39.2
3338	−0.12	− 5.2	37.6; 36.8
3341	+0.02	+ 0.2	23.9
3342	−0.54	− 4.5	31.8
3347	−0.35	− 4.4	35.6
3348	−0.26	− 5.9	36.2
3357	+0.09	− 3.3	44.1; 42.3
3358	−0.17	− 1.7	24.6
3360	+0.09	− 8.8	36.5
3361	+0.13	− 3.7	44.5
3362	−0.16	+ 0.9	32.0
3363	−0.11	− 4.0	43.7
3365	−0.06	− 2.7	37.0
3370	0.00	− 5.0	28.0
3371	+0.19	− 6.6	43.8
3374	−0.07	− 5.5	39.4
3378	−0.42	− 7.8	40.2
3381	+0.05	− 4.0	29.0; 25.0

*) 3024 m. p. — 0^s0409; + $0''442$ *Bauschinger* l. c. № 32.

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a a
3383	−0.07	− 2.4	30.0; 28.3
3384	−0.35	− 4.1	39.7
3388	−0.03	− 1.7	32.0; 30.3
3395	+0.23	− 6.2	39.8
3396	−0.02	− 3.1	44.0
3398	−0.17	− 7.5	41.0
3399	−0.28	− 3.2	41.2
3400	−0.35	+ 0.7	42.0; 40.8
3402	−0.22	− 2.7	41.6; 42.3
3403	+0.29	− 1.5	46.0
3405	+0.59	− 3.0	41.6; 39.5
3407	−0.07	− 2.7	49.0
3412	+0.14	− 5.9	45.2
3413	−0.22	− 1.3	45.0
3416	−0.01	− 3.7	40.8
3418	+0.01	− 6.8	34.8
3421	−0.18	+ 0.1	46.5
3422	−0.10	−10.1	41.9
3426	−0.01	− 5.3	43.4; 44.2
3428	−0.13	− 1.7	42.0
3430	−0.07	0.0	44.3
3432	−0.04	− 3.8	39.1
3433	−0.17	− 0.7	37.0
3435	−0.14	− 2.1	32.0
3436	+0.24	− 0.4	46.0
3438	−0.38	− 5.7	37.0
3439	−0.02	− 0.1	36.0
3442	−0.31	− 2.0	45.3
3443	−0.12	− 2.0	43.3
3445	−0.28	− 2.0	44.6; 43.5
3447	+0.06	− 1.1	35.7; 36.6
3448	+0.16	− 3.7	37.7
	14h		
3449	−0.51	− 5.1	38.9
3450	−1.29	− 5.4	42.8
3451	+0.05	− 2.9	45.3
3454	−0.12	− 6.3	40.0
3457	−0.40	− 4.5	38.3
3460	−0.23	− 0.2	38.5
3462	+0.31	− 0.1	42.9
3464	−0.12	− 2.1	47.5
3465	+0.22	− 6.5	37.0
3466	−0.09	− 5.3	37.2
3468	−0.37	− 2.6	40.6; 38.7
3469	−0.07	− 5.6	36.9
3471	+0.39	−13.9	42.5
3472	−0.27	+ 1.2	43.6
3473	−0.43	− 5.2	42.3
3475	−0.54	− 6.3	43.2; 45.5
3478	+0.09	−11.3	43.0
3479	−0.80	−21.1	41.7
3483	−0.30	− 3.7	48.0
3485	−0.97	+ 4.0	41.8; 40.2
3487	+0.02	− 1.0	44.3
3488	+0.68	− 7.4	42.0
3495	+0.15	− 5.5	37.5
3496	+0.07	−10.4	45.4
3498	+0.14	− 3.5	48.0
3499	−0.21	− 1.0	41.0; 37.0
3502	−0.27	− 5.5	42.6
3505	−0.12	− 2.2	42.2
3507	+0.03	− 1.1	40.0
3508*)	−1.98	− 3.3	43.0
3509	−0.51	− 3.8	42.6
3511	+0.23	− 4.9	37.8
3512	−0.20	− 2.6	43.8
3513	+0.07	− 0.5	46.0
3516	+0.32	+ 1.3	44.0

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3517	+0.07	− 5.5	30.3
3518	−0.11	− 0.7	42.0
3519	−0.09	−10.6	45.8
3520	−0.01	− 2.7	42.7; 44.2
3521	+0.30	− 1.9	39.3
3522	−0.19	− 3.8	44.0
3523	−0.44	− 0.6	35.0
3524	+0.39	− 3.5	43.7
3526	−0.08	− 3.5	40.5
3527	+0.07	− 2.8	52.0
3530	−0.40	− 6.1	41.4
3532	−0.31	−12.4	45.7
3533	0.00	− 1.9	28.7
3534	−0.13	− 2.5	41.2
3536	−0.35	− 4.5	44.0
3539	−0.02	− 0.8	46.5
3540	+0.21	− 3.9	39.8
3543	−0.49	+ 1.4	44.0
3544*)	−0.49	− 5.9	30.0
3546	−0.03	− 3.3	20.0
3547	−0.32	− 9.6	44.0
3548	+0.07	− 5.4	50.0
3549	−0.29	− 4.9	34.5
3550	−0.24	+ 1.0	36.5
3554	+0.08	− 0.2	42.5
3556	−0.33	− 1.7	39.4
3557	−0.10	− 6.1	42.0
3559	−0.06	− 3.2	29.8
3560	−0.18	0.0	40.5
3562	+0.02	− 0.8	40.3
3563	−0.31	− 1.9	43.0
3565	−0.02	− 5.5	38.8
3566	−0.12	− 4.0	33.1
3570	−0.29	− 7.5	38.7
3571	+0.06	− 6.0	30.0
3572	−0.14	− 8.1	46.0
3573	+0.52	−11.1	42.6
3574	−0.17	− 3.2	30.1
3575	−0.08	− 2.5	33.0
3581	−0.25	− 7.6	38.5
3582	0.00	− 8.9	43.3
3584	+0.03	− 2.0	37.3
3585	−0.22	− 6.3	44.0
3586	−0.25	− 7.0	31.0
3587	−0.23	− 2.7	39.6
3588	−0.11	− 9.2	45.7
3589	−0.18	− 5.1	19.7
3590	0.00	− 2.2	49.0
3591	−0.03	− 6.3	43.2
3592	+0.64	− 5.6	45.3
3593	−0.10	− 6.4	38.3
3594	+0.27	+ 2.7	34.0
3595	0.00	− 0.3	33.4
3596	−0.39	+ 3.0	35.0
3597	+0.09	− 6.4	48.0
3598	−0.22	+ 0.3	37.6
3599	−0.22	− 3.6	44.0
3600	−0.22	− 4.8	41.2
3601	+0.10	− 7.5	44.0
3602	−0.42	− 4.9	30.4
3603	−0.22	− 4.9	32.2
3604	−0.42	− 3.5	31.1; 31.8
3605	−0.12	− 2.5	30.7
3607	−0.65	− 6.5	32.0
3608	−0.35	− 0.1	41.3; 40.7
3609	−0.13	− 8.5	43.9
3610	−0.36	− 3.0	42.1; 43.3
3611	0.00	− 3.4	37.7
3613	−0.68	− 0.8	44.7; 43.3
3614	−0.24	− 4.9	44.8

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3615	+0.11	− 5.5	37.3
3617	−0.19	− 3.7	41.2
3618	−0.32	− 6.5	32.4
3619	−0.22	− 1.8	37.6
3620	−0.29	+ 1.5	42.3; 41.0
3621	−0.10	− 1.1	40.2
3622	−0.40	− 1.8	35.6; 30.0
3623	−0.49	− 9.3	29.8
3624	−0.11	− 1.3	26.4; 28.0
3625	0.00	− 2.6	26.0; 24.3
3626	−0.57	+ 2.5	43.2
3628	−0.36	− 0.8	37.4
3629	−0.38	− 7.1	39.4
3630	−0.44	− 4.3	33.4
3632	−0.47	− 5.7	49.0
3633	−0.47	− 0.6	31.7; 30.8
3634	−0.24	− 3.0	42.0
3635*)	−1.34	− 7.7	43.8
3636	+0.05	− 7.8	38.8
3638	+0.10	− 7.5	42.5; 43.5
3639	−0.18	− 2.6	49.0
3640	−0.12	− 4.9	42.5; 41.8
3641	−0.07	− 0.1	39.0
3643	+0.02	− 2.3	40.1; 38.9
3645	−0.24	− 3.1	37.6; 36.6
3647	−0.27	− 4.9	42.5
3650	−0.64	− 5.0	44.7
3651	0.00	− 1.3	37.7; 39.8
3652	−0.21	− 2.8	42.4
3655	−0.37	− 3.1	43.9
3656	−0.57	− 0.5	35.3; 38.7
3658	+0.29	+ 0.2	43.0
	15h		
3661	+0.14	− 0.1	41.5
3663	−1.20	− 1.1	44.4
3664	−0.17	− 2.9	39.8; 36.5
3665	−0.44	− 2.9	38.9
3666	−0.24	− 4.0	38.3
3667	+0.10	− 2.4	46.3
3668	−0.11	− 8.6	46.4
3669	−0.25	− 2.8	40.9
3670	+0.08	− 3.3	42.3
3671	−0.14	− 3.0	40.5
3672	−0.25	+ 0.2	43.1
3673	−0.05	− 3.9	40.4; 39.5
3674	−0.60	− 6.6	35.2
3675	−0.10	− 8.0	36.0
3676	−0.43	− 4.3	40.3
3677	−0.16	− 2.0	43.0
3678	−0.05	− 3.6	33.2
3679	+0.01	− 4.8	40.9
3680	−0.08	− 4.5	35.6
3681	−0.78	− 1.4	42.0
3682	−0.15	− 2.8	46.0
3683	−0.33	− 4.4	38.9
3684	+0.02	− 1.6	41.6
3685	−0.07	0.0	40.6
3686	−0.15	− 4.9	33.8
3687	−0.25	− 3.9	39.8
3688	−0.16	− 4.1	36.1
3691	+0.04	− 0.9	24.6
3692	−0.08	− 5.6	32.1; 31.3
3694	+0.18	− 1.1	33.0
3695	+0.06	− 2.6	38.0
3696	−0.28	− 2.5	40.0
3697	−0.06	− 3.5	38.6
3698	+0.05	− 1.9	31.7
3699	−0.22	− 0.7	34.9; 31.3

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3701	0.00	− 0.1	43.0
3702	+0.08	− 2.5	34.5; 35.8
3703	+0.34	− 6.3	39.0
3707	+0.24	+ 0.7	31.6
3708*)	−0.59	− 7.5	29.6
3709	+0.18	− 1.2	34.7
3711	−0.25	0.0	30.7
3714	+0.26	− 1.0	26.6
3715	−0.12	− 3.7	37.9
3717	−0.12	− 4.2	42.4; 40.2
3718	+0.05	− 6.5	31.5
3719	−0.41	− 4.0	40.4
3720	−0.12	− 3.5	39.3
3723	+0.13	− 1.8	29.3; 33.9
3724	−0.06	− 5.0	28.8; 26.4
3726	−0.01	− 1.5	29.1; 29.9
3729	+0.18	− 3.4	37.2
3731	−0.15	− 3.3	36.1
3734	−0.20	− 0.8	28.7
3735	−0.02	− 4.4	21.9
3736	−0.19	− 5.5	37.5
3738	−0.11	− 9.2	40.7
3741	−0.29	− 3.1	42.0
3743	+0.12	− 4.6	40.9
3746	−0.09	− 4.7	33.5
3747	−0.58	− 7.6	44.9
3751	−0.14	− 2.5	31.0
3753	−0.32	− 3.5	41.0
3757	+0.05	− 2.4	43.6
3760	+0.39	− 0.4	41.9
3762	−0.20	− 1.5	22.9
3763	−0.61	− 7.0	46.9
3769	−0.29	− 0.8	31.7
3773	−0.16	− 3.0	37.8
3781	−0.23	− 7.3	36.0
3783	−0.19	− 2.8	44.1
3787	−0.19	− 1.4	44.8
3789	−0.13	− 2.6	38.6
3793	−0.33	− 6.0	40.7
3794	−0.23	+ 1.6	40.0
3799	−0.05	− 5.5	39.2
3800	−0.64	− 2.5	39.9; 41.9
3802	−0.04	− 1.4	31.3
3803	−0.62	− 2.0	43.7
3804	−0.10	− 2.5	49.5
3805	−0.16	− 1.0	39.9
3806	−0.37	− 2.2	31.0
3807	−0.06	− 1.6	30.1; 31.2
3808	−0.02	+ 1.1	22.7
3809	−0.22	− 6.7	31.3; 32.6
3810	−0.22	− 3.2	25.3
3811	−0.55	− 3.9	30.6; 32.1
3812	+0.27	− 4.9	28.9
3813	+0.03	− 4.7	36.1
3814	−0.08	− 3.7	43.4
3816	−0.16	+ 0.3	42.9
3817	−0.25	− 4.9	35.2
3818	−0.67	− 5.5	42.7
3820	−0.57	− 6.9	42.7
3822	−0.46	− 3.4	45.4
3823	−0.13	− 8.5	34.9
3824	−0.08	+ 5.8	38.0
3825	+0.23	− 0.2	41.4
3827	−0.17	− 5.3	43.6
3828	−0.14	− 2.0	32.5
3831	+0.58	− 4.5	43.9
3833	−0.19	+ 2.0	42.1; 43.4
3835	−0.77	+ 2.3	39.0
3837	−0.16	− 1.7	30.4
3838	−0.13	− 2.5	40.0

*) 3508 m. p. −0s.0431; −0″.101. *Bauschinger* l. c. № 41. 3544 m. p. −0s.0170; № 42. 3635 m. p. − 0s.0242; −0″.106 *Bauschinger*. l. c. № 45. 3708 m. p. −0s.0205; −0″.186 *Bauschinger* l. c. № 49.

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3839	+0.09	− 4.0	42.0
3840	−0.18	− 3.3	51.0
3842	+0.07	− 0.9	36.9
3843	+0.11	+ 0.1	33.1; 32.1
3844	−0.11	− 6.8	48.4
3847	−0.19	− 4.3	35.8; 38.0
3848	−0.33	− 1.4	30.4
3850	−0.10	− 0.8	26.6
3855	−0.12	− 7.0	28.8
3856	−0.35	− 2.9	40.8
3857	+0.13	− 1.2	34.0; 33.0
3859	+0.11	− 0.9	32.4
3860	−0.07	+ 0.4	26.9

16h

Cat. №	Δα	Δδ	Δ Ep.
3862	−0.03	− 1.4	31.0; 32.0
3863	−0.05	+ 3.6	33.0
3864	−0.07	+ 1.7	28.5
3866	−0.10	− 5.1	27.6
3867	−0.34	− 4.0	45.0
3868	+0.04	− 4.5	32.3
3869	−0.02	+ 0.1	31.1
3870	−0.03	+ 1.6	34.7; 30.9
3871	−0.37	0.0	34.4
3872	−0.32	− 2.0	34.7
3873	+0.04	− 3.1	25.9
3874	−0.47	+ 1.8	32.5
3876	−0.19	− 2.2	24.5
3877	−0.01	− 0.8	31.8
3880	+0.09	− 2.0	40.6
3881	−0.22	+ 0.6	30.1
3882	−0.05	− 4.9	30.4
3887	−0.15	+ 1.8	28.6
3888	−0.27	− 2.3	39.9
3890	+0.21	+ 0.8	31.4
3891	−0.10	+ 0.3	36.0
3893	−0.10	− 2.6	24.7
3894	−0.06	− 7.7	36.1
3895	−0.18	+ 0.3	33.8
3896	−0.08	+ 2.2	37.9
3897	−0.06	− 2.6	27.9
3900	−0.10	+ 0.3	27.7
3903	+0.20	− 1.1	34.0
3904	−0.22	+ 2.2	22.0
3905	−0.12	− 5.9	32.5
3906	−0.09	+ 4.0	32.6; 39.6
3907	−0.19	+ 6.2	47.0
3909	−0.17	− 1.3	27.7
3910	0.00	− 2.5	29.1; 27.7
3912	−0.10	− 1.1	40.6
3913	−0.22	+ 0.9	32.9; 25.0
3914	−0.09	− 4.1	30.0
3915	−0.28	− 0.7	36.8
3916	−0.31	− 1.5	44.6
3917	−0.04	− 0.5	46.5
3918	+0.02	− 2.2	35.6; 33.1
3920	−0.14	− 3.9	32.0; 31.2
3922	−0.03	+ 5.1	33.7
3923	−0.11	+ 1.8	28.9
3927	−0.18	− 2.1	27.1
3930	0.00	− 2.3	29.3; 30.1
3933	−0.39	+ 2.5	40.0
3934	−0.21	+ 2.2	44.5
3938	+0.21	− 2.0	38.0
3940	−0.04	− 3.2	30.5; 29.7
3941	−0.04	− 4.2	41.3
3943	−0.05	− 2.8	47.0
3944	−0.20	− 0.5	25.9
3946	−0.16	+ 1.2	23.3

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
3947	0.00	− 2.6	29.7
3948	−0.08	− 3.5	47.0
3949	−0.10	+ 2.8	31.0
3950	−0.41	− 5.9	36.6; 38.5
3952	0.00	+ 0.1	43.2
3953	+1.01	−11.9	31.7
3954	−0.13	− 1.3	38.9; 35.8
3955	+0.01	− 1.3	32.4
3956	−0.14	− 3.9	40.7
3959	−0.13	− 0.1	33.3
3962	+0.03	0.0	39.4
3963	−0.22	− 9.7	28.9
3964	−0.01	− 5.6	33.9
3966	+0.10	+ 1.3	23.0
3967	+0.04	− 0.1	30.1
3969	−0.06	− 1.2	47.0
3970	−0.07	− 6.3	32.6; 33.9
3971	−0.14	− 1.9	31.2
3973*)	+0.03	−10.6	26.3; 31.0
3974	−0.02	− 1.8	27.6
3975	−0.18	+ 0.8	40.2
3977	+0.07	− 1.9	35.1; 32.5
3978	+0.02	− 4.2	39.4
3979	−0.43	− 2.9	36.7
3980	−0.43	− 2.9	47.1
3981	−0.05	− 2.6	35.6; 39.3
3982	−0.09	− 4.2	37.1; 25.0
3983	+0.01	− 1.3	29.5; 30.4
3984	−0.16	−10.9	33.9
3985	−0.28	− 0.8	47.4
3986	−0.04	− 2.0	27.9
3987	+0.02	+ 0.6	25.5
3988	−0.05	− 8.4	37.0
3989	−0.39	+ 2.1	41.0
3990	−0.32	− 1.4	38.0
3991	+0.12	− 2.0	25.9; 23.7
3992	+0.02	− 3.7	25.1
3993	+0.18	− 1.4	29.8; 33.3
3994	−0.21	− 3.3	40.8
3995	+0.19	− 0.2	37.9
3996	−0.13	− 0.8	46.0; 42.7
4001	+0.01	− 1.8	26.1
4002	+0.02	− 0.8	31.5; 24.6
4005	+0.02	− 3.2	29.1; 29.9
4006	−0.14	− 4.9	35.2
4007	+0.04	− 3.5	34.5; 33.4
4008	−0.13	+ 0.8	32.5
4009	−0.05	− 6.4	24.5
4010	+0.10	+ 0.1	32.9
4012	−0.16	− 3.8	40.6
4014	−0.38	− 0.9	39.5
4016	+0.33	+ 0.7	38.1
4017	−0.07	− 0.6	26.4
4018	+0.03	+ 1.7	25.0
4019	+0.03	0.0	29.7
4021	−0.11	− 2.3	30.1
4023	−0.25	− 1.9	32.0
4025	−0.14	− 1.0	22.2; 23.7
4027	−0.13	+ 1.6	31.2
4029	−0.03	+ 2.8	32.3; 30.0
4030	−0.32	+ 0.1	23.8
4031	−0.11	− 4.2	32.5; 31.6
4032	+0.04	− 6.3	24.9; 26.4
4033	−0.06	− 0.2	34.4; 37.0
4034	−0.08	− 1.2	34.5
4035	−0.06	− 4.3	29.8
4037	−0.16	− 4.0	29.8; 28.7
4038	−0.04	− 4.5	42.9
4039	−0.11	− 3.9	29.6; 31.0
4040	−0.12	− 1.6	36.0

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a a
4043	−0.13	− 3.5	33.0; 37.2
4044	−0.06	− 5.1	34.9; 27.9
4045	−0.19	− 1.0	26.0
4046	+0.04	+ 1.8	29.0
4047	+0.09	− 2.1	30.1
4048	+0.07	− 2.7	39.5; 38.2
4049	−0.23	− 2.6	25.6
4050	+0.18	− 5.0	24.4
4051	−0.06	0.0	27.1
4052	−0.28	+ 1.8	20.9
4053	−0.15	+ 1.7	27.1; 25.5
4054	−0.21	− 0.3	37.9
4055	−0.05	+ 0.9	28.8
4057	−0.24	+ 1.5	25.7
4058	−0.03	− 3.6	33.6
4059*)	−1.31	−19.9	19.8
4062	−0.49	− 7.6	32.5

17h

Cat. №	Δα	Δδ	Δ Ep.
4063	−0.04	− 3.0	45.0
4064	+0.19	− 6.1	36.0
4065	−0.33	− 4.9	26.2
4066	+0.01	+ 0.6	26.6
4068	−0.16	− 9.4	25.6
4070	−0.16	+ 0.7	36.6
4071	−0.02	− 0.3	26.5
4072	−0.33	− 3.2	30.5
4073	−0.23	− 6.5	24.4; 25.9
4074	−0.08	+ 0.6	26.0
4077	−0.02	+ 1.5	27.9
4078	−0.19	− 2.5	40.2
4079	−0.16	+ 1.6	22.2
4080	−0.11	− 2.6	27.0
4081	−0.05	+ 1.6	
4086	−0.22	− 4.1	26.2; 26.9
4087	−0.28	+ 1.7	44.8
4088	−0.44	− 0.5	46.3
4091	+0.04	− 2.0	35.0
4092	−0.13	− 3.0	45.0
4096	−0.18	− 4.2	27.1
4099	−0.03	− 5.9	33.0; 33.8
4100	−0.01	0.0	27.5
4102	−0.05	− 3.5	36.5
4103	−0.16	− 1.5	30.2
4104	−0.11	+ 1.2	22.5
4105	−0.18	− 6.0	34.7
4106	−0.24	+ 1.4	24.2
4109	+0.20	− 1.6	40.4
4110	−0.16	− 0.7	26.1
4111	−0.15	− 4.2	33.8; 30.5
4112	+0.04	− 6.8	31.5
4113	−0.04	− 1.8	23.4
4114	+0.03	− 3.2	32.3
4115	−0.19	− 6.7	34.6
4116	−0.19	− 5.7	33.5
4117	−0.02	− 2.1	29.3
4118	−0.01	− 6.6	34.0
4119	−0.06	+ 0.9	25.1
4120	−0.15	− 0.3	25.0
4121	+0.16	− 0.1	34.9
4122	−0.19	− 4.0	33.5
4124	−0.18	− 4.9	32.5
4127	−0.18	+ 0.5	24.4
4128	−0.28	+ 0.3	22.7
4129	−0.14	− 0.9	34.9
4130	−0.18	− 5.4	31.3
4131	−0.01	− 0.4	34.3
4132	−0.21	− 0.3	28.9
4133	−0.02	− 1.6	28.6

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
4134	−0.34	− 2.9	36.4
4135	+0.11	+ 4.1	48.9
4136	−0.19	− 6.5	25.6
4137*)	−0.92	− 7.5	40.8
4138	−0.03	− 9.7	34.0
4140	−0.40	− 0.5	37.2
4141	−0.23	− 2.9	26.2; 25.6
4142	−0.04	+ 0.8	23.3
4145	−0.23	+ 1.8	41.6
4148	−0.26	− 5.4	43.5
4150	+0.01	− 3.0	40.4
4151	−0.09	− 0.5	40.7; 42.4
4152	−0.23	+ 3.4	17.2
4153	+0.08	+ 2.9	17.8; 16.7
4154	−0.09	− 3.2	47.3
4156	0.00	+ 0.9	41.9
4162	−0.23	+ 1.3	24.4
4164	−0.06	− 5.7	49.8
4165	+0.04	− 0.4	29.8; 26.5
4166	−0.12	− 0.3	31.5; 32.7
4167	−0.03	+ 3.3	45.1
4168	−0.29	− 6.6	32.0
4170	−0.17	− 6.9	33.7
4171	+0.22	− 9.0	46.1
4172	−0.14	+ 1.6	24.8
4175	−0.06	− 5.3	32.4
4177	+0.02	− 2.1	45.5
4178	−0.04	+ 0.8	33.9; 26.3
4179	−0.10	− 3.7	26.6; 25.2
4180	−0.15	− 3.7	31.8
4182	−0.27	− 6.6	27.5; 29.5
4184	−0.03	+ 1.4	29.0
4186	+0.11	− 4.6	33.2
4187	−0.35	− 6.6	38.4; 37.1
4189	−0.12	+ 2.2	24.5
4190	+0.01	− 6.1	39.0
4191	+0.36	− 8.4	47.1
4192	−0.05	− 5.6	38.7
4193	−0.15	− 6.9	27.4
4194	−0.14	− 4.4	31.0
4195	−0.17	− 1.3	31.7
4196	+0.29	− 0.7	30.4; 29.1
4198	−0.19	− 6.7	29.6
4199	+0.01	− 1.4	28.3
4201	−0.21	− 2.3	26.4
4202	−0.26	− 0.7	25.7
4204	−0.03	− 1.6	27.3
4205	−0.05	− 2.2	35.9
4206	0.00	− 4.0	31.6; 26.9
4208	−0.19	− 5.1	29.9; 29.0
4209	−0.07	− 4.1	39.7
4210	−0.04	− 4.9	29.3
4211	−0.16	− 1.0	26.0; 25.1
4213	−0.07	− 0.4	30.6
4214	+0.16	−10.6	36.5
4216	+0.03	− 1.5	50.9
4217	−0.05	− 2.3	44.0
4218	−0.11	− 4.0	31.9; 33.6
4219	−0.11	+ 0.9	26.9
4220	−0.18	− 2.4	36.1; 32.7
4221	−0.10	− 1.0	24.1
4222	−0.22	− 8.5	31.7
4223	+0.10	+ 0.6	44.6
4224	+0.24	− 3.7	34.3
4225	−0.24	+ 1.9	25.4; 27.6
4226	−0.25	− 3.0	25.9
4227	−0.11	− 3.5	27.2
4228	−0.04	− 2.1	38.3; 35.6
4229	0.00	− 0.7	47.8; 42.1
4232	−0.40	− 6.8	31.9

*) 3973 m. p. — 0s.0040; — 0″.435 *Bauschinger*. l. c. № 52. 4059 m. p. — 0s.0648; — 1″.117 *Bauschinger*. l. c. № 53. 4137 m. p. — 0s.0192; — 0″.085 *Bauschinger*. l. c. № 58.

Cat. №	Warsch. - München			Cat. №	Warsch. - München			Cat. №	Warsch. - München			Cat. №	Warsch. - München		
	Δα	Δδ	Δ Ep.		Δα	Δδ	Δ Ep.		Δα	Δδ	Δ Ep.		Δα	Δδ	Δ Ep.
	s	″	a		s	″	a a		s	″	a a		s	″	a
4233	−0.15	−10.6	31.1	4314	−0.07	− 2.4	35.5; 37.4	4405	−0.24	− 9.2	19.8; 17.5	4492	−0.01	− 2.8	30.5
4234	−0.06	+ 0.4	28.0	4315	−0.05	+ 6.0	23.7	4406	−0.10	− 3.8	27.5; 28.5	4493	+0.18	+ 0.4	41.8; 43.0
4236	−0.38	− 8.2	32.4	4316	−0.03	− 6.8	47.0	4408	−0.06	+ 0.1	25.6	4494	−0.14	− 1.0	46.9
4237	−0.15	+ 1.1	27.9	4317	+0.04	+ 1.0	23.7	4409	−0.11	− 0.8	30.7; 28.1	4495	−0.16	− 1.1	36.8
4238	−0.01	+ 1.0	28.7	4318	−0.27	+ 0.6	29.6	4410	+0.02	+ 0.4	31.3	4497	−0.06	+ 0.3	30.4
4239	−0.13	− 2.4	32.6	4319	+0.07	− 3.5	27.2	4411	−0.12	− 3.5	36.0; 39.0	4500	−0.05	− 0.9	31.6; 28.9
4240	−0.39	− 6.2	31.9; 29.3	4320	−0.11	− 0.1	25.3	4413	−0.02	+ 0.2	44.6; 41.9	4501	−0.04	− 2.9	28.9; 27.8
4242	−0.16	− 0.1	29.8	4322	−0.10	− 4.7	43.2	4414	−0.29	− 7.0	29.5; 28.5	4502	+0.07	− 5.6	20.4
4243	−0.04	− 1.8	35.1	4323	−0.16	− 2.3	25.7; 23.8	4415	−0.31	− 5.7	46.0	4504	−0.04	+ 0.4	29.4; 30.2
4244	−0.15	+ 3.2	36.2	4324	+0.17	+ 4.6	41.9	4417	−0.26	− 2.4	47.0; 50.3	4505	−0.16	− 5.3	37.5
4245	−0.32	− 5.6	30.2	4325	−0.33	− 4.2	29.4	4418	−0.20	+ 3.9	37.6	4506	−0.12	− 3.9	33.4
4247	−0.08	+ 0.1	30.8	4326	+0.19	+ 1.7	22.6	4419	+0.32	− 0.5	35.7; 32.8	4507	−0.04	+ 3.7	34.6
4248	−0.12	− 3.0	25.1; 26.8	4327	−0.23	− 0.9	37.4	4422	−0.08	+ 0.8	27.4; 26.1	4509	−0.13	− 0.4	27.7; 26.0
4249	−0.20	− 1.3	32.2; 33.5	4328	+0.04	+ 0.6	26.6	4423	−0.05	− 0.7	31.3	4510	−0.17	− 6.0	46.0
4253	−0.25	− 3.2	34.9	4329	−0.11	+ 0.2	43.9	4424	−0.28	− 2.8	32.0	4511	−0.03	+ 0.9	29.1
4255	−0.11	− 0.6	29.8	4330	−0.10	− 7.1	29.1	4426	−0.22	− 0.1	36.2; 37.7	4512	−0.24	− 6.8	32.5
4256	−0.09	− 0.1	28.8	4331	+0.06	− 1.8	20.1	4427	+0.10	+ 3.1	36.6; 39.0	4514	−0.34	+ 0.4	43.9
4257	−0.14	+ 1.9	28.7	4332	+0.61	− 4.3	32.9	4428	−0.30	− 6.1	43.0	4515	−0.16	− 0.6	37.5
4258	+0.01	− 1.0	24.0	4333	−0.20	− 3.6	26.0	4430	−0.06	− 5.3	35.9	4516	−0.05	+ 0.5	35.1; 33.2
4259	−0.16	− 4.3	36.6	4334	+0.04	− 5.2	23.0	4431	+0.01	− 2.5	45.2	4517	0.00	− 2.7	33.0
4260	−0.02	− 6.4	32.0	4335	+0.03	− 0.6	36.7	4432	−0.09	+ 0.3	25.0	4518	−0.14	− 1.5	18.9
4261	+0.15	+ 1.4	32.0	4336	−0.14	+ 2.1	25.1	4433	−0.03	+ 3.5	28.8; 20.4	4519	+0.01	− 2.3	29.2
4262	−0.07	+ 1.1	27.1; 23.4	4337	+0.36	− 3.8	38.4	4434	+0.08	− 0.4	28.1; 34.5	4520	−0.53	− 5.3	33.6
4263	−0.04	− 2.8	31.6; 32.4	4338	+0.02	− 1.5	29.3	4435	−0.07	+ 3.2	36.9	4521	−0.18	− 5.3	33.8
4264	−0.12	− 4.1	36.4	4339	−0.04	− 1.6	40.7	4437	+0.10	− 5.9	29.7	4522	−0.05	− 0.2	36.1
4266	−0.25	− 7.3	39.9	4342	−0.12	− 5.2	15.0; 21.9	4438	−0.12	+ 0.8	26.2; 18.9	4523	+0.01	− 2.3	10.9
4267	−0.11	− 2.1	27.7; 26.2	4343	−0.32	+ 0.5	35.8; 32.0	4440	−0.15	+ 5.3	23.5; 19.0	4524	−0.14	− 3.9	40.2
4268	+0.26	− 4.3	31.8	4344	−0.06	+ 0.3	31.5	4441	+0.05	+ 1.7	27.9; 30.3	4525	−0.04	− 1.1	27.5; 26.2
4269	−0.09	− 0.6	29.3	4347	−0.27	− 4.8	40.3	4443	−0.13	− 4.2	35.9	4527	−0.23	−10.7	48.9
4270	−0.34	− 6.5	28.7	4348	+0.16	− 1.1	43.5; 45.2	4444	+0.04	− 1.0	39.9	4529	−0.09	+ 1.7	23.4
4271	−0.22	− 0.1	32.7; 30.4	4349	−0.07	0.0	41.0	4445	−0.01	− 0.6	33.2	4530	−0.10	+ 0.4	22.9
4273	−0.24	− 4.8	29.7; 27.4	4350	+0.10	− 3.4	22.5	4446	−0.11	− 5.5	33.6; 32.6	4531*)	−0.57	−10.5	31.0; 29.9
4275	−0.20	− 4.1	41.9	4351	−0.32	− 2.7	28.6	4447	+0.01	− 2.9	26.1; 29.5	4532	+0.03	+ 1.5	38.5
4276	−0.03	+ 0.8	24.6	4352	−0.16	− 1.7	43.0	4448	−0.03	+ 1.2	26.2	4534	+0.05	+ 1.0	47.6
4277	−0.39	+ 1.3	29.9	4355	−0.27	− 1.2	24.5	4449	−0.17	− 7.4	30.8; 33.1	4537	−0.26	+ 0.8	24.6; 19.7
4278	−0.22	+ 1.3	30.3	4356	+0.06	− 2.0	28.8	4450	−0.01	− 1.4	47.9	4539	−0.12	− 4.7	30.1
4279	−0.11	− 3.4	36.0	4357	−0.07	+ 2.7	15.0	4451	−0.07	+ 3.1	31.8; 32.6	4540	−0.17	+ 1.2	32.5
4280	−0.42	− 7.1	25.8	4358	−0.03	− 2.8	43.4; 41.2	4452	−0.13	− 2.8	30.0	4541	−0.07	+ 0.5	37.8; 36.5
4281	−0.23	− 4.5	34.2	4360	−0.16	− 0.2	38.8; 40.9	4453	−1.57	−15.2	46.0; 48.9	4543	+0.02	− 0.6	29.8; 31.1
4282	−0.10	−15.2	49.0	4361	−0.35	− 1.0	49.9	4454	−0.12	− 5.9	33.7; 32.7	4544	+0.06	− 4.3	36.7
4283	−0.07	− 0.5	37.1	4362*)	−0.87	− 8.8	45.5; 46.4	4455	−0.12	− 8.5	35.9	4545	−0.28	− 8.8	47.2
4285	+0.03	− 3.0	35.9	4363	+0.16	− 0.5	45.8	4456	−0.11	0.0	36.7	4546	−0.12	− 2.0	28.1
4287	−0.13	− 0.6	35.3; 33.6	4367	−0.02	+ 1.3	39.6	4457	−0.07	− 1.5	21.7; 18.9	4547	+0.09	+ 1.6	22.1; 27.4
4288	−0.23	− 6.0	35.8	4370	−0.03	− 0.5	29.7; 26.8	4458	+0.07	− 0.2	21.4; 29.8	4548	−0.18	− 1.5	26.7
4290	−0.30	− 3.9	31.3	4372	−0.11	− 0.3	31.2	4459	−0.09	− 1.5	26.4	4549	−0.02	+ 2.4	28.8
4291	+0.12	− 1.6	45.2	4373	−0.07	− 1.3	29.0	4460	−0.24	− 8.8	26.5	4550	−0.15	− 1.2	25.5
4292	+0.17	+ 0.9	27.2	4374	−0.06	− 2.3	27.3	4461	−0.01	− 1.2	35.0	4552	−0.04	+ 0.6	29.8
4293	−0.03	− 4.1	40.5	4375	−0.04	− 1.0	38.1	4462	−0.07	− 0.5	32.3	4553	−0.13	+ 0.6	50.3; 54.4
				4376	−0.11	+ 2.2	46.9	4463	−0.05	− 1.4	30.0	4554	−0.30	− 4.3	38.3
	18h			4377	−0.11	+ 1.0	26.3	4464	−0.09	+ 0.4	29.8	4555	−0.48	+ 4.6	44.0
				4378	+0.04	− 4.2	46.7	4465	−0.10	− 6.1	32.0	4556	−0.44	− 4.7	45.8; 48.6
4294	−0.10	− 0.5	36.7; 34.9	4379	−0.06	− 1.1	31.0	4466	−0.03	+ 4.0	41.3	4557	−0.17	− 5.4	42.7
4295	−0.20	0.0	27.7	4380	−0.22	− 6.4	31.0	4467	−0.19	− 0.1	35.4	4558	−0.06	− 6.7	24.9
4296	−0.18	− 3.8	24.7	4382	+0.05	− 4.3	36.8	4468	−0.07	− 2.5	31.6; 30.1	4559	−0.26	+ 2.4	32.2; 31.4
4297	+0.08	− 5.0	34.7	4383	−0.14	+ 1.7	33.6; 31.8	4469	−0.19	− 3.8	40.6	4560	−0.12	− 3.7	31.9; 27.2
4298	−0.22	− 1.7	28.5	4384	+0.58	+ 2.1	35.0	4470	−0.03	− 0.3	47.9	4561	−0.13	− 0.9	36.3; 32.6
4299	−0.15	− 6.0	28.4	4385	−0.22	− 9.3	32.0	4471	−0.03	+ 0.1	32.1	4563	−0.05	+ 0.4	26.9; 28.7
4301	−0.07	+ 2.6	29.6; 27.1	4390	−0.12	− 0.1	32.1; 30.7	4473	+0.12	+ 4.2	29.3	4564	+0.12	+ 1.1	20.9
4302	−0.09	− 2.3	43.3; 41.4	4391	−0.17	− 7.5	35.1; 36.1	4474	−0.10	+ 3.9	20.8	4566	−0.09	− 2.0	23.1
4303	−0.11	+ 0.5	22.8	4392	+0.08	+ 0.1	40.5	4476	−0.20	+ 0.2	24.2	4567	−0.05	+ 1.6	24.4; 22.9
4304	−0.22	+ 2.1	26.6; 28.1	4393	−0.42	− 2.9	43.5	4478*)	−0.32	−10.9	38.0; 39.6	4568	−0.22	− 7.4	35.9
4305	−0.16	− 6.6	26.8; 27.9	4394	+0.11	− 4.3	31.3; 30.5	4480	−0.10	− 2.4	44.0	4569	−0.07	− 1.6	29.5
4306	−0.20	+ 1.2	37.1	4395	−0.08	− 7.6	34.5	4482	−0.02	− 2.2	27.4	4570	−0.16	− 0.1	25.6; 21.6
4307	−0.08	− 4.8	28.2; 29.0	4397	+0.18	− 3.6	40.3	4483	−0.04	− 0.7	32.7	4571	−0.15	+ 0.2	29.0; 27.9
4308	+0.08	− 1.9	25.4	4399	−0.12	− 1.0	45.6	4484	+0.03	+ 0.6	19.0; 19.8	4572	−0.15	+ 1.0	34.0; 33.9
4309	−0.07	+ 0.8	44.7	4400	−0.10	− 0.5	31.6; 30.5	4485	−0.05	− 2.0	28.2	4573	−0.15	− 2.0	25.5; 27.5
4310	−0.03	− 5.0	23.0	4401	+0.16	+ 1.5	49.6	4487	−0.39	− 7.2	52.9	4574	−0.05	− 0.6	29.3
4311	+0.03	+ 0.8	29.2	4402	−0.07	+ 2.5	27.8	4489	−0.08	− 1.6	23.6	4575	−0.02	+ 1.6	24.9
4312	−0.22	− 6.2	26.8; 27.7	4403	−0.06	− 0.4	29.1; 30.3	4490	+0.13	−10.1	41.5	4577	−0.39	− 3.6	35.0; 41.1
4313	−0.08	+ 2.2	22.4	4404	−0.14	+ 1.5	30.1	4491	−0.11	+ 1.2	31.4; 29.8	4578	−0.11	+ 1.5	35.9

*) 4362 m. p. — 0s.0140; — 0″.285 *Bauschinger*. l. c. № 60. 4478 m. p. — 0s.0114; — 0″.245 *Bauschinger*. l. c. № 61. 4531 m. p. —0s.0111; —0″.455 *Bauschinger*. l. c. № 62.

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
4580	—0.14	— 4.1	28.2
4581	—0.02	+ 0.3	26.6; 22.6
4582	—0.19	— 1.6	30.5; 20.2
4583	—0.12	+ 2.2	30.1; 30.9
4584	—0.30	— 6.7	35.1
4585	—0.32	— 2.2	49.5
4586	—0.20	— 2.0	35.1
4587	—0.06	— 0.1	23.5; 24.5
4588	—0.22	+ 3.1	37.6
4589	+0.01	— 2.9	28.3; 20.6
4590	—0.08	— 1.1	31.5
4591	+0.17	— 6.3	35.8
4592	—0.12	— 1.3	51.0
4595	—0.04	— 1.1	32.0
4596	—0.32	— 2.7	39.9
4597	—0.09	— 3.8	50.9
	19^h		
4599	—0.14	— 5.0	38.0
4600	—0.13	+ 0.6	28.6
4601	—0.17	— 3.5	41.2
4602	—0.17	— 0.8	31.0
4603	—0.11	— 1.0	24.1
4604	+0.03	— 2.1	23.5
4606	—0.20	+ 3.2	23.7
4607	—0.20	+ 0.2	29.8
4608	—0.36	+ 2.7	35.3
4609	—0.12	+ 0.5	27.6; 25.0
4610	—0.12	— 1.3	29.1
4611	—0.09	— 3.2	36.1
4612	—0.18	+ 2.6	24.9
4613	—0.07	— 0.7	29.9; 35.5
4614	—0.14	— 1.9	30.6
4615	—0.01	— 1.4	41.8
4616	—0.09	— 0.3	28.0
4617	—0.01	— 5.0	40.6
4618	—0.21	— 0.1	28.4
4619	+0.01	+ 0.9	30.7; 31.6
4620	—0.24	— 8.5	34.4
4621	—0.09	— 0.2	34.6
4622	—0.15	— 0.7	26.5
4624	—0.03	— 5.0	37.3; 45.3
4625	—0.22	— 3.5	37.5
4626	—0.12	— 1.5	30.8
4628	—0.08	— 2.2	26.6; 24.8
4629	—0.27	— 2.3	30.6; 29.6
4630	—0.16	— 2.6	34.5
4631	—0.17	— 1.6	29.6
4632	—0.01	+ 3.2	51.4
4634	—0.10	+ 1.4	45.9
4636	—0.07	+ 1.6	26.9
4637	—0.10	— 2.2	31.3; 33.8
4640	—0.30	— 4.1	32.4
4641	—0.11	+ 0.9	28.8; 21.3
4642	+0.03	— 4.1	42.0
4643	—0.09	+ 2.3	33.3
4644	—0.09	+ 0.1	29.4
4648	+0.16	— 3.1	45.9
4649	+0.25	— 5.2	46.0
4650	—0.60	— 4.1	39.0; 40.0
4652	—0.42	— 4.4	40.5
4653	—0.21	— 5.3	30.7; 27.4
4655	—0.21	— 7.2	36.0
4657	—0.12	— 2.3	32.9
4658	—0.08	— 4.9	25.0
4659	—0.12	— 0.3	31.2
4660	—0.18	— 2.4	37.0
4661	—0.16	— 4.2	35.9
4662	—0.05	— 4.7	28.7

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
4663	—0.14	— 1.7	32.9
4664	—0.16	— 2.7	31.8
4665	—0.12	— 3.8	32.9
4666	+0.03	+ 0.9	31.2; 32.0
4668	—0.15	— 1.5	26.0
4669	—0.17	— 6.8	41.9
4670	—0.13	— 2.7	29.5
4671	—0.12	— 1.2	24.7
4672	+0.30	— 0.4	37.5
4673	—0.07	— 0.9	29.8
4674	+0.04	— 5.5	30.2
4676	—0.07	— 3.1	27.3
4677	+0.15	+ 0.7	28.2; 31.2
4678	—0.16	— 1.8	38.7
4679	+0.12	+ 1.4	25.4
4681	+0.28	+ 3.9	21.2
4682	—0.18	— 6.0	34.5
4683	—0.12	— 3.9	26.3
4684	—0.21	+ 1.1	27.2
4685	—0.16	— 7.6	38.9; 40.7
4686	—0.02	— 9.5	37.0
4688	—0.07	— 6.1	30.3
4690	—0.02	+ 1.3	43.5; 47.5
4691	—0.36	— 2.8	20.9; 19.9
4693	—0.21	— 6.8	41.2
4694	—0.21	— 1.2	38.3; 34.6
4695	0.00	+ 0.9	32.5
4696	+0.05	+ 2.2	29.1
4697	—0.05	+ 0.2	32.9
4698	—0.29	— 6.3	42.5; 49.0
4699	—0.12	— 1.1	36.0
4700	—0.07	+ 3.8	48.9
4701	—0.18	+ 2.0	40.9; 42.4
4702	+0.03	+ 0.5	28.7; 22.9
4703	—0.27	— 1.4	25.0
4704	—0.13	+ 0.5	36.5
4705	—0.09	— 2.3	25.0; 30.9
4706	—0.19	+ 2.0	33.8; 32.3
4707	—0.01	+ 1.9	29.9
4708	—0.05	— 4.8	34.7; 33.5
4709	—0.25	— 0.7	35.4
4710	—0.07	— 5.1	36.9; 39.0
4712	—0.10	— 5.3	37.0
4713	+0.21	+ 0.5	42.6
4714	—0.21	— 5.5	37.3
4715	—0.02	+ 1.9	31.1
4716	—0.12	— 7.6	36.4; 37.2
4717	+0.02	+ 2.1	26.6; 28.9
4718	—0.39	+ 1.7	34.5
4719	—0.23	— 0.7	28.1
4720	—0.03	+ 1.5	27.6
4721	—0.06	— 1.8	27.9
4722	—0.02	— 2.8	35.2
4724	+0.02	— 0.1	25.6
4725	—0.13	— 7.9	52.0
4726	+0.02	+ 2.3	37.0
4728	—0.18	—10.7	20.8; 22.5
4729	+0.14	+ 1.2	39.5
4730	—0.47	—12.3	36.0
4731	—0.01	— 9.1	36.4
4732	+0.01	+ 3.4	32.4
4733	—0.41	— 1.0	23.7; 22.6
4734	—0.11	— 5.6	42.9
4735	—0.12	— 2.4	34.5; 37.4
4736	—0.19	— 4.7	29.5; 28.1
4737	+0.07	+ 0.8	32.2
4738	—0.12	— 4.7	32.1
4739	—0.26	— 0.4	30.7
4740	—0.44	— 5.7	52.0
4742	—0.10	— 2.5	34.3

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a a
4743	—0.18	— 5.2	40.4; 37.4
4744	—0.06	+ 1.0	29.5
4746	—0.22	— 9.9	40.4
4747	—0.24	— 2.2	40.3; 41.2
4748	+0.16	— 5.7	43.0
4749	+0.12	— 0.9	20.6
4752	+0.11	— 2.2	46.0
4753	—0.16	— 2.2	44.5
4754	—0.10	— 2.5	38.2
4755	—0.11	— 2.9	49.4
4756	—0.06	— 8.5	31.8
4758	—0.05	+ 0.9	17.0
4759	—0.39	+ 7.1	32.0
4761	—0.41	— 6.4	28.4; 24.6
4762	—0.08	— 0.9	34.2
4764	+0.07	— 3.0	31.9; 33.6
4765	—0.20	— 6.3	30.5
4766	—0.16	+ 6.1	35.5
4767	—0.16	+ 1.3	32.7; 34.5
4768	—0.24	— 7.5	34.0; 32.6
4769	—0.24	+ 0.5	32.6; 30.3
4770	—0.06	+ 0.9	25.0; 24.3
4771	—0.20	+ 8.8	40.9
4772	+0.10	+ 1.4	29.3
4774	—0.34	+ 0.5	32.0
4775	—0.03	+ 1.1	18.1; 18.9
4778	+0.01	— 2.4	36.9
4779	—0.03	— 3.4	42.9; 48.5
4780	+0.02	+ 1.2	18.1; 16.9
4781	+0.16	+ 0.4	33.2; 26.6
4782	—0.04	+ 2.8	30.2; 31.1
4783	—0.37	+ 0.7	49.0
4784	—0.14	+ 3.4	28.8; 38.1
4785	—0.16	— 1.0	33.5
4786	—0.23	+ 0.4	33.4; 34.2
4787	+0.05	+ 5.2	52.9
4788	—0.24	+ 0.5	28.5
4789	—0.11	— 3.9	31.4; 29.5
4790	—0.08	— 0.3	28.4
4791	—0.01	+ 1.0	24.3
4792	+0.01	+ 0.9	35.0; 32.6
4793	+0.05	+ 1.0	29.4; 26.7
4794	+0.13	— 0.9	38.6; 46.3
4795	—0.35	+ 1.2	32.4
4796	—0.22	+ 1.4	28.9; 30.1
4797	—0.10	— 6.3	40.1
4799	+0.08	+ 0.8	39.7
4800	+0.15	— 6.7	33.2; 34.1
4801	+0.21	— 2.4	32.9
4802	—0.02	— 0.7	35.9
4803	—0.16	— 0.6	31.6
4804	+0.04	+ 3.1	25.9
4805	—0.19	— 4.5	34.3; 36.8
4806	—0.23	— 6.2	33.2; 30.1
4807	—0.47	—12.3	48.1
4808	—0.11	— 2.6	30.7
4809	—0.05	— 1.1	19.9
4810	—0.10	— 0.6	41.7
4811	+0.02	+ 0.3	29.4
4812	+0.07	+ 2.9	30.8
4813	—0.07	— 4.6	42.3
4814	—0.20	— 4.4	32.7: 29.9
4815	—0.18	— 6.7	33.8; 36.3
4816	—0.02	— 3.6	44.3; 42.3
4817	—0.04	+ 0.1	46.6
4818	—0.35	—11.7	49.3
4819	—0.37	— 8.4	44.3
4822	—0.10	— 1.6	40.6
4823	+0.03	+ 3.7	45.8
4824	—0.09	— 5.5	37.7; 38.6

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	″	a
4825	+0.13	— 5.3	42.3
4826	—0.20	+ 6.1	22.8
4827	+0.82	— 5.0	42.4
4829	+0.11	— 3.6	51.9
4832	+0.08	+ 0.1	40.4
4833	—0.16	— 7.0	42.4
4834	—0.02	+ 1.3	35.5
4835	—0.30	— 5.5	39.4
4836	—0.07	+ 2.9	34.6
4840	—0.13	— 5.0	40.4; 42.4
4841	—0.07	+ 0.4	35.9; 37.2
4843	—0.43	— 3.2	44.3; 46.6
4844	—0.27	— 0.4	35.9; 33.5
4845	—0.16	—11.2	42.7; 41.7
4846	—0.19	+ 1.4	42.1
4847	—0.29	— 2.4	39.4; 37.5
4848	—0.08	— 2.9	45.1
4849	—0.26	— 3.2	41.6
4850	—0.16	— 1.2	29.1; 22.6
4852	—0.21	— 4.4	36.5
4854	+0.55	— 3.7	42.9
4857	—0.13	+ 1.3	34.6; 36.9
4858	+0.14	— 4.0	42.6; 41.8
4860	+0.07	— 3.0	40.0
4861	—0.04	— 3.4	40.0
4862	+0.13	— 4.3	41.0
4863	—0.14	+ 4.3	41.0; 46.0
4864	—0.06	— 0.4	19.5; 21.5
4865	+0.04	+ 1.1	43.1
4866	—0.06	— 0.8	41.0
4867	—0.11	— 1.6	27.8: 26.6
4868	—0.06	+ 4.1	22.6
4869	—0.09	+ 6.1	33.7; 29.7
4870	—0.19	+ 0.8	26.7
4871	—0.05	+ 1.7	36.2
4872	—0.04	+ 1.5	36.4
4874	—0.12	— 9.9	41.6; 42.6
4876	—0.78	— 3.1	36.0
4877	—0.21	— 4.5	40.6
4878	—0.15	+ 1.4	31.4
4879	+0.01	— 2.5	51.9
4880	+0.06	+ 1.7	27.5; 28.3
4881	—0.10	+ 1.9	30.2; 37.2
4882	+0.01	— 5.2	41.0; 42.6
4885	—0.21	— 1.8	44.2; 46.0
4886	+0.06	— 3.8	44.0
4887	—0.09	— 2.2	46.6; 43.6
4888	—0.03	— 5.8	32.5; 31.7
4889	—0.19	— 6.6	40.1; 39.0
4890	—0.17	— 8.5	47.3
4891	—0.07	— 0.5	35.0
4892	—0.02	+ 4.7	37.5; 38.2
4893	—0.18	0.0	31.9
4896	—0.18	— 2.5	30.8
4897	—0.24	+ 1.7	42.1; 40.3
4898	—0.18	+ 2.8	24.4
4900	0.00	— 4.4	39.9
4901	—0.13	+ 2.2	32.3; 36.9
4902	0.00	+ 1.0	29.9: 34.0
4904	—0.13	— 5.0	32.7; 34.0
4905	—0.28	— 6.8	28.9
4906	—0.09	— 2.9	38.9
4907	—0.10	— 6.9	43.6; 42.1
4908	—0.04	+ 0.1	37.1
4909	—0.42	— 8.3	42.3
4910	—0.15	— 7.2	44.2
4911	+0.36	— 2.0	44.0
4912	—0.08	+ 1.9	38.7
4913	—0.15	— 5.6	34.9; 33.4
4915	—0.42	— 4.5	34.0; 34.9

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a
4916	+0.13	+ 0.5	37.0
4917	−0.06	− 3.7	38.7
4918	−0.06	− 0.7	33.1
4919	−0.29	− 1.2	29.2
4920	−0.11	+ 2.5	34.0
4921	−0.35	− 4.5	30.2
4922	−0.19	− 1.3	43.6; 44.6
4923	−0.26	− 3.4	35.8; 33.3
4924	−0.26	− 3.7	41.1
4925	−0.08	+ 2.4	43.2
4926	−0.02	− 1.2	47.2
4927	+0.19	+ 0.9	39.4
4928	−0.53	+ 4.7	22.7
4929	−0.20	+ 3.8	37.5
4930	−0.08	− 0.6	28.8; 38.3
4931	−0.28	− 0.9	35.7
4932	−0.25	− 8.0	36.4
	20h		
4933	−0.12	+ 1.3	28.6; 29.3
4934	−0.22	+ 0.6	37.6
4935	−0.47	+ 1.3	36.9
4936	−0.23	− 1.7	42.8
4937	−0.14	+ 1.4	23.9
4939	−0.09	− 0.7	27.0
4941	−0.39	+ 5.5	27.6
4942	+0.32	− 2.3	34.5
4943	−0.26	+ 0.3	34.1
4944	−0.27	− 1.7	28.8
4945	−0.01	− 8.9	39.3
4946	−0.25	− 4.3	33.2
4948	−0.28	+ 0.2	28.4
4949	−0.25	− 2.6	39.9
4950	+0.13	− 2.0	36.7; 39.2
4951	−0.17	+ 3.2	36.2; 34.2
4952	−0.08	+ 1.8	29.2; 25.9
4953	−0.05	+ 2.2	29.6
4954	−0.31	− 0.7	24.9
4955	+0.01	+ 0.9	28.1; 29.0
4956	+0.17	+ 2.7	31.5; 33.5
4957	+0.33	+10.5	42.3; 43.0
4958	−0.04	+ 1.5	27.5
4959	−0.14	0.0	42.0
4960	−0.19	+ 0.8	34.1; 35.1
4961	+0.17	− 1.9	36.5
4962	+0.06	− 3.0	51.0
4963	−0.14	− 0.3	34.9; 36.9
4964	−0.15	− 3.8	33.0
4967	+0.01	+ 3.9	29.8
4968	+0.01	− 2.1	31.9
4969	+0.05	+ 3.3	26.9
4970	−0.06	− 6.9	42.3
4971	−0.04	− 0.4	32.7; 33.6
4972	−0.24	− 8.0	41.4
4973	+0.02	+ 4.6	32.7
4974	−0.33	− 0.2	27.4
4975	+0.08	+ 0.2	38.2
4976	−0.20	− 4.6	40.1; 39.4
4977	−0.18	+ 1.7	49.1
4978	−0.47	− 1.3	37.8
4979	+0.10	+ 0.3	47.6
4980	−0.14	− 7.1	39.9; 36.3
4982	+0.03	− 5.2	40.0; 41.9
4983	−0.22	− 9.1	48.1
4984	−0.55	− 1.7	44.0
4985	−0.29	− 2.9	29.6; 30.5
4987	−0.08	− 0.3	30.0
4988	−0.11	− 5.6	42.6; 41.0
4989	−0.15	+ 2.2	39.7; 41.1

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a a
4990	+0.11	− 0.5	48.3; 49.8
4991	−0.11	+ 1.8	30.0; 30.7
4992	−0.11	+ 1.0	32.2; 29.6
4993	−0.08	− 1.3	29.0
4995	−0.12	− 2.2	28.9
4996	−0.27	− 2.4	40.0
4997	−0.14	+ 0.8	28.1
4998	−0.06	− 1.2	32.1; 33.3
4999	−0.06	+ 2.1	34.9
5000	−0.03	− 0.5	24.0
5001	+0.06	− 5.3	32.4
5003	−0.18	− 4.8	50.0
5005	−0.08	− 6.4	36.5; 35.6
5006	−0.07	− 2.7	41.5
5007	−0.07	− 1.8	42.7
5008	−0.20	+ 0.3	34.2
5011	−0.02	− 0.7	42.4; 51.9
5012	−0.02	+ 1.4	30.4; 26.7
5013	−0.17	+ 0.3	32.0; 39.0
5014	−0.27	− 4.0	42.4
5015	−0.06	− 0.3	30.8
5016	+0.11	− 6.0	33.1
5017	+0.09	− 7.1	49.9
5018	−0.04	+ 2.1	37.7
5019	−0.11	− 4.0	36.0
5020	−0.31	+ 2.8	36.6
5021	−0.03	+ 0.3	30.5
5022	−0.24	− 0.9	34.3
5023	−0.11	+ 3.1	37.8
5024	−0.25	+ 3.2	34.1
5027	−0.13	− 0.2	30.2
5028	−0.08	+ 1.6	34.5
5029	−0.09	+ 2.8	32.6
5030	−0.04	− 1.0	42.1
5031	−0.20	+ 0.6	23.0
5032	+0.27	+ 0.4	28.3
5033	+0.05	− 4.3	34.5
5034	−0.09	+ 1.2	34.4; 31.4
5035	−0.04	− 0.5	32.8; 33.5
5036	−0.12	− 5.2	37.2
5037	−0.39	− 6.9	43.7
5039	−0.08	− 2.2	26.9
5040	+0.13	− 0.2	41.3
5041	−0.34	− 5.3	35.1
5043	−0.05	+ 1.5	29.0
5044	−0.10	− 0.8	26.3
5045	−0.02	+ 0.7	35.6
5046	−0.20	− 3.8	40.9; 44.0
5047	+0.02	+ 3.0	30.6
5049	−0.01	− 2.7	32.9
5051	+0.08	+ 5.6	40.4
5052	−0.09	− 0.9	39.5; 46.1
5053	+0.07	− 2.5	48.7
5054	−0.01	− 6.3	42.3
5055	−0.39	− 8.1	39.6
5056	−0.14	+ 1.0	28.1
5057	−0.15	− 7.6	44.7; 43.5
5058	−0.20	− 7.5	43.4; 44.4
5060	−0.21	+ 2.4	33.8; 30.7
5061	+0.07	+ 1.9	30.3
5062	−0.20	+ 4.4	36.8; 35.5
5064	+0.12	− 1.8	44.1
5067	+0.05	+ 3.2	32.8
5068	−0.13	− 2.0	31.7; 33.7
5070	−0.23	+ 2.4	34.2
5071	−0.18	+ 5.0	31.4; 33.2
5072	−0.20	− 0.4	31.6; 30.7
5074	+0.23	− 7.5	42.6; 41.5
5075	−0.24	+ 0.8	34.9; 36.1
5076	+0.09	− 1.2	40.2

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a a
5077	+0.41	− 8.9	44.1; 48.1
5078	−0.05	− 7.0	27.0; 33.0
5079	−0.02	− 3.9	32.3; 34.6
5082	−0.14	0.0	39.2; 43.0
5083	−0.05	+ 0.9	22.9
5084	−0.07	+ 3.8	45.9
5085	−0.15	+ 2.6	34.6
5086	−0.29	− 2.4	46.7; 47.7
5087	+0.02	− 6.9	39.9
5088	−0.32	− 5.5	33.6
5089	−0.16	+ 3.3	30.0
5090	−0.09	− 1.8	29.0
5092	−0.19	+ 0.4	36.4; 34.4
5093	+0.08	− 9.8	34.2; 35.0
5095	+0.33	− 6.5	40.5
5096	−0.10	− 5.2	35.4; 32.5
5097	−0.02	− 6.1	40.9
5098	−0.22	+ 0.2	36.2; 38.9
5099	−0.08	− 8.8	37.0
5100	−0.09	− 3.0	32.5; 29.6
5101	−0.17	+ 0.7	42.8
5102	−0.12	+ 0.6	30.4
5103	−0.26	− 2.0	37.3; 38.3
5104	−0.27	+ 1.4	38.7
5105	−0.27	− 5.2	31.6
5106	−0.34	− 0.5	39.2; 40.7
5107	−0.17	+ 2.5	35.1; 36.1
5108	−0.24	− 0.3	36.0; 40.1
5109	−0.01	+ 2.2	27.2
5110	−0.14	− 7.9	37.0
5111	−0.17	− 7.3	33.2
5112	−0.04	−12.6	33.0
5113	−0.03	+ 1.3	39.8
5114	−0.17	− 0.3	23.9
5115	−0.05	+ 4.2	34.9; 31.5
5117	+0.14	− 2.6	40.2
5118	−0.19	− 1.6	34.0; 35.1
5119	−0.24	− 5.6	42.9
5120	−0.03	− 4.5	39.5; 32.0
5121	−0.24	− 4.6	42.4
5123	−0.04	+ 2.9	34.3; 35.3
5124	−0.18	+ 0.4	47.4; 53.0
5125	−0.18	+ 0.7	38.0
5126	−0.27	+ 3.8	34.9
5127	+0.02	− 2.3	35.9; 34.3
5128	−0.09	− 2.5	35.2
5129	−0.10	− 4.8	35.6
5130	−0.20	− 0.9	25.3; 26.7
5131	−0.07	+ 1.9	33.8
5132	−0.31	+ 1.7	33.4; 32.0
5133	−0.18	− 1.0	40.0
5134	+0.06	+ 1.8	38.0; 31.3
5135	−0.03	+ 1.3	39.3; 39.6
5136	−0.20	+ 4.5	35.6; 33.0
5137	−0.07	− 2.7	37.3
5138	+0.07	+ 1.9	41.0
5139	−0.34	+ 0.2	41.6; 45.4
5141	−0.12	− 3.1	36.7
5142	−0.39	− 1.2	42.5
5144	−0.34	− 1.2	33.0
5146	−0.01	+ 1.4	52.0
5147	−0.25	+ 0.3	40.5
5148	−0.07	+ 2.1	43.0
5150	−0.11	− 8.0	37.9
5151	−0.10	+ 1.2	31.3
5153	−0.11	− 1.0	27.1
5155	+0.06	− 7.2	43.8
5156	−0.19	−11.2	23.9; 24.9
5157	−0.23	− 6.4	46.0
5158	−0.29	− 0.8	31.5

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a a
5159	+0.04	− 6.8	37.2; 35.9
5160	+0.36	− 3.6	38.7; 40.4
5162	+0.04	− 8.4	39.9
5163	−0.23	+ 0.7	32.5; 34.6
5164	−0.19	+ 5.1	39.0; 43.6
5165	−0.43	− 5.4	34.5
5167	+0.04	+ 1.6	16.9
5168	−0.02	+ 1.4	42.7; 40.1
5169	+0.11	− 4.0	34.7; 36.6
5170	+0.12	+ 2.3	43.7
5171	−0.01	+ 0.6	31.3
5172	+0.05	+ 1.5	34.6; 37.0
5173	−0.03	− 0.9	31.3; 33.9
5174	+0.07	− 0.7	42.7; 43.4
5175	−0.31	+ 1.2	47.9
5176	−0.05	− 6.2	35.6; 36.3
5177	+0.02	− 4.8	39.9
5178	+0.16	+ 0.2	36.1
5179	−0.13	− 3.1	41.3; 42.3
5180	+0.37	− 2.5	36.0
5181	−0.07	− 3.8	28.5
5182	−0.06	− 2.1	38.9; 37.9
5183	−0.19	− 0.2	37.1
5184	−0.08	− 3.9	41.2; 42.1
5185	−0.08	− 1.7	35.3; 37.3
5186	+0.25	− 5.1	39.1
5188	−0.07	+ 5.6	43.9; 46.8
5189	−0.25	− 1.6	23.6
5190	−0.18	+ 3.6	21.7
5191	−0.37	+ 1.4	41.9
5192	−0.20	− 3.6	37.6
5193	+0.02	− 2.6	37.5
5194	−0.02	+ 1.0	39.3; 40.4
5195	−0.17	− 0.4	33.4
5196	+0.07	0.0	39.3; 41.9
5198	+0.43	− 6.6	47.5; 45.3
5200	−0.17	− 7.5	44.9
5201	−0.07	− 1.6	31.0
5202	+0.03	− 1.9	46.0
5203	−0.04	0.0	32.3; 31.3
5205	+0.13	+ 0.7	40.3
5206	−0.09	− 2.9	41.5
5207	−0.14	− 7.9	45.8; 49.1
5209	−0.05	− 5.4	38.5; 31.0
5210	−0.07	+ 0.5	37.6
5211	−0.19	+ 2.4	22.9; 26.2
5213	+0.05	− 3.9	45.0
5214	−0.52	− 9.7	50.0
5215	+0.17	− 8.5	29.0; 30.5
5216	−0.32	+ 4.9	40.8; 39.6
5217	−0.14	+ 1.6	36.1
5218	+0.03	− 0.3	36.7: 35.1
5220	−0.09	− 7.9	47.6
5221	−0.07	+ 2.5	28.9
5222	+0.03	− 4.8	22.9; 24.9
5223	−0.23	+ 0.7	29.2; 31.5
5224	+0.19	+ 3.0	39.6
5225	+0.24	+ 3.6	39.4; 44.0
5226	−0.01	+ 0.9	33.4
5227	+0.01	− 4.5	36.5
5228	−0.25	− 0.6	39.0; 41.4
5229	+0.01	+ 1.5	39.0; 36.0
5230	−0.12	+ 5.7	32.7; 29.7
5231	+0.09	+ 3.0	36.2; 37.3
5233	−0.13	− 6.9	37.9; 43.9
5234	−0.27	+ 4.0	42.4
5235	+0.53	− 0.8	44.9
5236	−0.49	− 4.2	35.0
5237	−0.17	− 2.6	40.4
5238	−0.16	− 0.7	33.8

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a
5242	+0.10	− 6.4	42.5
5243	−0.12	− 4.9	38.1
5244	−0.05	− 5.0	36.9
5245	+0.67	− 6.7	31.9
5246	−0.24	− 6.4	31.2
5247	−0.05	− 9.3	41.3; 43.0
5248	−0.22	+ 0.9	42.1
5249	−0.08	− 0.5	26.6; 25.3
5250	+0.58	+ 1.5	42.2
5251	−0.03	− 9.1	38.6; 37.8
5252	−0.12	− 0.7	31.0
5253	−0.15	+ 2.0	29.4
5254	−0.13	− 2.9	43.5
5255	+0.09	− 3.1	51.5
5257	−0.18	− 2.9	36.7; 38.2
5258	−0.03	− 4.3	39.8; 37.9
5259	−0.20	− 6.6	31.7; 32.3
5260	−0.15	− 3.5	43.6; 45.3
5262	−0.14	− 2.7	50.8; 49.5
5263	−0.10	− 2.6	46.4; 49.6
5264	−0.34	+ 1.6	31.5
5265	−0.06	− 1.7	29.0; 26.6
5267	−0.40	− 0.6	33.1
5269	−0.04	− 6.2	42.6
5272	+0.28	− 1.1	42.0
5273	−0.04	+ 3.2	34.2; 33.6
5274	−0.12	− 4.9	34.2
5275	−0.31	+ 1.7	28.7
5278	−0.10	− 4.3	39.8
5279	+0.15	− 2.9	34.9; 36.0
5280	−0.32	+ 2.4	20.1; 22.5
5282	−0.12	+ 4.9	44.2; 43.4
5283	−0.10	+ 1.8	41.7; 40.1
5284	+0.10	− 4.4	53.0
5285	−0.09	+ 0.5	50.5
5286	+0.06	− 7.0	34.6
5288	−0.35	+ 1.4	36.5; 37.8
5290	−0.13	− 5.9	39.8
5291	−0.13	− 5.0	35.6
5292	+0.08	− 3.6	44.2
5293	+0.21	− 2.6	45.4; 44.5
5295	−0.30	− 3.0	18.6
5296	−0.01	+ 0.6	40.5; 41.8
5297	+0.02	− 2.0	40.0; 43.0
5298	+0.14	− 1.0	40.5
5299	−0.43	− 4.5	31.8; 30.7
5302	−0.15	− 1.6	36.9
5304	−0.21	− 0.3	31.1
5305	−0.02	+ 3.3	38.0
5306	+0.01	− 5.4	44.5
5309	+0.01	+ 1.0	39.9
5310	−0.09	− 0.3	37.5
	21h		
5311	−0.40	− 0.9	45.2
5312	−0.09	− 2.0	37.7
5313	−0.15	− 3.5	43.6
5314	+0.52	+ 8.4	37.6
5315	−0.17	− 1.4	22.9
5316	+0.16	− 3.5	39.0
5320	−0.20	− 2.0	39.5
5321	−0.16	− 2.5	36.0; 37.3
5322	−0.14	− 0.7	18.6
5324	−0.12	+ 1.6	18.9; 16.8
5326	+0.15	− 2.8	45.4
5327	+0.28	+15.8	52.0
5328	−0.17	+ 0.2	42.6; 42.0
5329	+0.48	− 5.1	45.0
5330	+0.01	+ 0.4	40.1

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a
5331	−0.18	− 3.5	18.9
5333	0.00	− 3.4	40.7
5334	+0.13	− 8.9	36.5; 35.6
5335	−0.13	− 1.6	22.8
5337	0.00	+ 1.8	40.0
5338	+1.04	+ 3.7	44.2; 43.3
5340	−0.21	− 6.6	44.4
5343	0.00	− 4.9	32.6
5344	0.00	− 0.3	34.7
5345	−0.18	+ 0.3	41.1; 38.6
5346	−0.02	− 1.5	36.0
5348	−0.10	0.0	32.1
5350	−0.02	+ 0.9	43.3
5351	+0.26	− 7.2	52.0
5351	−0.14	− 4.9	50.5
5353	−0.21	+ 1.0	34.5
5354	−0.10	− 1.4	36.3
5355	+0.14	+ 0.8	38.6; 34.3
5356	+0.08	+ 2.6	41.0; 50.0
5357	−0.35	− 9.9	31.7
5358	+0.09	− 5.9	34.2
5359	−0.17	− 0.1	34.8
5360	−0.12	+ 0.2	33.6
5361	−0.21	+ 0.1	45.0
5362	+0.11	+ 6.5	42.5
5364	+0.05	− 5.4	48.2
5365	−0.73	+ 1.7	51.9
5366	+0.20	− 3.7	45.0
5367	−0.20	+ 2.9	33.8
5370	−0.03	− 2.1	39.3
5371	+0.18	− 8.0	47.0
5372	−0.01	− 7.6	40.6; 41.7
5373	−0.24	− 1.9	42.3
5374	+0.08	− 1.0	32.1
5376	−0.11	− 8.7	47.9
5377	−0.04	− 1.7	43.3; 33.3
5378	+0.17	− 5.7	45.1
5379	−0.52	+ 4.5	37.4; 35.2
5380	−0.04	− 1.2	33.4
5381	−0.49	+ 2.2	32.1
5382	−0.60	+ 2.8	41.6; 44.6
5383	−1.07	− 0.2	39.0; 34.5
5385	−0.25	− 5.1	48.0
5386	−0.41	− 1.5	36.2; 35.0
5387	−0.15	− 1.9	34.0; 35.7
5388	−0.61	+ 0.9	39.8; 40.9
5389	−0.34	− 4.9	36.0
5390	−0.08	− 4.6	38.0
5391	−0.07	− 3.2	42.7
5392	−0.10	− 6.9	46.1
5393	−0.46	+ 0.6	37.8
5394	−0.30	− 2.3	38.0; 37.0
5395	+0.94	− 2.6	44.1
5396	−0.25	− 6.1	42.2
5397	−0.47	+ 0.8	38.0
5398	−0.04	− 3.4	35.8
5400	−0.66	− 1.8	35.4; 37.9
5401	0.00	− 4.9	40.6; 42.2
5402	−0.09	− 6.5	47.0
5403	−0.09	− 6.7	30.0; 29.1
5404	+0.01	+ 6.1	51.5
5405	+0.40	− 9.3	24.0
5406	0.00	− 0.6	40.2
5407	+0.01	− 7.0	46.9; 45.9
5408	−0.12	+ 0.4	35.4
5410	−0.10	+ 3.7	39.5
5411	−0.20	− 1.1	44.0
5412	+0.24	− 3.1	30.5
5413	+0.55	− 4.3	51.1
5414	+0.04	− 0.5	36.5

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a a
5415	−0.10	+ 3.8	38.8; 37.1
5416	−0.06	− 5.7	42.1
5417	+0.02	− 5.9	47.9
5418	+0.18	− 5.5	39.0
5422	−0.10	− 4.2	51.0
5423	−0.18	− 7.5	41.6; 42.7
5424	−0.13	−16.4	25.0
5425	−0.11	+ 1.2	25.0
5426	−0.38	− 1.0	28.8
5427	−0.26	− 4.4	42.4
5428	−0.15	+ 1.2	33.0; 34.0
5429	+0.13	− 6.9	48.0
5430	−0.24	− 4.2	36.1
5431	−0.15	+ 4.7	40.7
5432	−0.11	+ 0.8	39.2; 35.4
5434	+0.02	+ 3.0	40.8; 45.0
5435	−0.22	−11.4	40.1
5436	−0.08	− 9.7	46.5
5439	−0.09	− 6.4	40.0
5440	−0.29	− 1.7	38.1
5441	−0.10	− 7.8	45.3; 49.5
5443	−0.29	− 0.4	41.0
5444	+0.14	+ 0.4	38.7
5445	−0.05	− 2.3	46.8
5447	−0.16	− 5.4	41.7
5448	−0.26	+ 1.3	32.1
5449	+0.06	− 7.3	48.1
5450	−0.13	− 2.5	51.3
5451	−0.21	+ 3.5	40.0
5452	−0.18	+ 1.6	47.0
5453	−0.21	+ 1.3	35.7
5454	−1.54	−14.0	37.7; 36.0
5455	−0.28	− 6.8	42.1
5456	−0.07	+ 2.1	38.7; 40.4
5459	−0.15	+ 3.6	44.1
5460	−0.27	− 4.9	36.0
5461	−0.20	− 1.6	43.2
5462	−0.16	+ 3.9	37.9
5463	−0.24	− 8.1	45.1
5464	−0.56	− 0.9	40.3
5465	+0.45	− 8.5	43.3
5466	+0.17	− 3.1	35.4
5467	−0.28	− 2.8	41.5
5468	−0.18	+ 0.9	40.3; 38.0
5469	−0.05	− 6.5	46.5
5471	−0.32	− 4.4	46.7; 45.4
5472	+0.31	− 8.4	50.6; 52.0
5473	+0.01	+ 6.3	46.1
5474	+0.16	− 6.8	48.9; 50.0
5475	+0.26	− 2.4	42.1
5476	+0.58	−12.7	39.8
5480	−0.06	−10.4	50.9
5481	−0.17	− 5.5	44.0
5482	−0.31	− 0.4	48.1
5483	+0.08	− 3.9	46.9
5484	−0.18	− 2.2	37.4
5485	+0.01	+ 7.2	53.1
5486	+0.53	− 2.0	49.3
5487	+0.02	− 1.3	44.1
5490	+0.07	− 8.9	49.1
5491	+0.09	− 1.4	39.8
5492	+0.13	+ 2.0	41.1
5493	+0.09	− 9.4	48.8
5494	−0.22	+ 1.0	44.0; 47.5
5495	+0.15	+ 3.7	42.8
5496	+0.02	− 0.4	43.3; 41.7
5497	+0.10	− 3.5	42.5; 39.8
5498	+0.21	− 9.6	47.3
5499	−0.15	− 7.7	51.0
5500	+0.17	− 9.8	42.4; 45.9

Cat. №	Warsch. - München Δα	Δδ	Δ Ep.
	s	"	a
5501	−0.12	+ 1.8	36.9
5502	−0.11	+ 1.5	43.2
5503	−0.10	− 7.7	48.2
5504	−0.25	0.0	38.4
5506	−0.27	+ 1.1	39.7
5507	−0.34	+ 0.8	36.4
5508	−0.23	− 6.6	49.0
5509	+0.26	− 1.9	50.8
5510	−0.10	− 4.1	48.8
5511	+0.04	+ 5.3	39.9
5513	+0.36	+ 3.9	47.9
5515	−0.02	− 8.9	48.9
5516	−0.36	− 8.3	43.5
5517	+0.49	− 7.3	49.5
5518	−0.02	− 7.8	42.9
5519	−0.14	− 4.6	53.2
5520	+0.67	− 3.6	45.4
5521	+0.44	+ 4.6	42.9
5522	−0.15	+ 1.5	42.6; 43.5
5524	−0.02	+ 2.6	49.5
5525	−0.31	+ 4.3	42.4
5526	−0.13	+ 0.6	37.8
5527	+0.16	+ 3.4	40.8; 35.3
5528	−0.17	+ 1.8	39.5; 37.9
5530	+0.18	− 1.7	41.6; 40.0
5531	−0.12	+ 1.1	42.5; 45.1
5532	−0.07	− 7.2	47.7
5533	−0.21	− 3.2	39.8; 42.0
5534	+0.14	− 8.1	46.0
5537	−0.07	− 3.4	42.5
5540	+0.16	+ 5.7	52.0
5541	−0.11	+ 3.1	40.3
5542	−0.03	0.0	44.8
5545	−0.46	− 4.0	39.2; 41.5
5548	+0.21	− 3.0	43.4
5549	+0.06	− 1.5	33.6
5°50	+0.07	− 2.6	38.0
5552	+0.45	− 9.8	50.7
5553*)	−0.39	− 8.9	41.4
5554	−0.17	+ 2.0	49.5
5555	+0.09	− 8.2	47.9
5556	+0.51	+ 3.0	52.0
5557	−0.18	+ 1.1	39.6
5558	−0.31	− 0.5	41.4
5559	+0.12	− 5.1	44.1
5560	+0.07	− 0.8	39.2
5563	−0.32	+ 2.7	46.4
5567	−0.27	− 4.0	37.6
5568	−0.09	+ 0.8	49.2
5569	+0.39	− 2.9	47.0
5571	−0.54	− 9.8	47.6
5573	−0.13	− 4.5	44.4
5574	+0.05	+ 4.0	42.2
5575	+0.15	− 0.3	41.0
5576	+0.03	− 6.8	49.3
5578	+0.45	+ 5.9	44.1
5579	0.00	− 3.1	48.0
5580	+0.09	− 0.7	38.4
5584	−0.81	− 7.6	43.7
5585	+0.46	− 3.1	42.1
5586	+0.10	− 5.1	46.7; 45.3
	22h		
5588	−0.07	− 7.9	49.7
5590	−0.04	− 3.7	48.0
5591	−0.13	− 0.5	37.6
5592	−0.21	+ 0.8	40.4
5593	−0.24	− 1.6	41.6
5595	−0.02	− 1.1	50.2

*) 5553 m. p. — 0".253 *Bauschinger*. l. c. № 80.

Cat. №	Warsch. - München		
	Δα	Δδ	Δ Ep.
	s	″	a
5596	—0.70	— 5.8	38.4
5597	—0.18	— 4.5	48.6
5598	+0.10	— 9.1	49.0
5602	—0.13	— 2.5	36.9
5604	—0.30	—10.8	49.5
5605	+0.33	+ 0.3	45.9
5607	+0.40	+ 1.6	38.9
5608	—0.55	— 0.5	40.2
5611	+0.22	— 7.0	40.9
5613	—0.10	— 1.3	41.6; 39.5
5615	—0.02	— 2.8	44.7
5616	—0.11	— 4.2	39.9
5618	—0.16	— 0.4	49.0
5619	—0.17	— 1.4	40.9
5621	+0.03	— 2.6	46.9
5623	—0.14	— 2.2	42.1; 36.8
5624	+0.05	— 1.1	46.0
5625	—0.07	— 1.3	46.4
5626	—0.29	— 3.2	44.6
5627	—0.19	+ 0.5	40.9
5629	—0.15	+ 2.6	37.7
5630	—0.11	— 2.8	42.9
5632	—0.24	— 5.7	50.0
5633	—0.24	+ 3.0	40.4
5634	—0.27	— 2.8	48.7; 46.0
5635	—0.11	— 4.1	44.9
5636	0.00	— 5.2	44.0
5638	—0.24	+ 0.3	42.6
5640	—0.24	— 4.0	43.8; 44.7
5641	—0.59	— 6.9	37.4
5642	—0.10	— 1.5	40.8; 38.8
5645	+0.14	— 0.3	44.6
5646	—0.10	— 9.2	41.3; 42.9
5649	—0.20	— 6.1	45.4
5650	+0.14	+ 2.6	40.2; 41.4
5651	—0.02	— 7.4	39.3
5652	+0.05	— 5.4	45.4
5653	—0.62	— 2.6	44.9
5654	+0.14	— 2.8	47.0
5656	+0.30	— 6.1	40.5
5659	—0.25	+ 0.2	49.4
5661	+0.04	— 0.4	39.5; 38.0
5662	—0.11	—10.8	40.0; 42.0
5663	—0.23	+ 3.9	42.6; 43.9
5666	+0 24	— 3.2	44.3
5669	—0.18	— 5.7	41.8
5671	+0.06	— 5.8	47.2

Cat. №	Warsch. - München		
	Δα	Δδ	Δ Ep.
	s	″	a
5673	—0.01	— 5.8	48.2
5674	0.00	+ 2.9	42.5
5675	+0.12	+ 0.1	39.9
5676	+0.01	+ 0.9	46.0
5678	+0.33	— 1.6	41.3; 39.3
5680	—0.13	— 2.0	39.9
5682	+0.59	+ 0.8	42.0; 43.2
5683	+0.04	— 5.2	45.0; 45.8
5684	+0.15	— 3.1	41.6
5685	—0.21	— 6.6	42.6
5686	—0.43	— 0.2	44.1
5687	—0.27	— 3.3	39.0; 41.0
5688	—0.07	— 8.0	44.3; 39.7
5690	—0.18	— 1.4	47.0
5691	+0.36	— 7.0	47.0; 50.7
5692	—0.10	+ 4.0	45.2
5693	+0.10	— 4.5	45.4; 42.9
5694	—0.67	+ 3.7	47.6
5696	0.00	— 1.4	40.2
5697	—0.15	— 2.1	50.2; 51.2
5698	—0.07	— 0.7	40.6
5699	—0.74	— 4.7	45.2
5700	—0.47	— 3.8	44.5
5701	—0.32	— 7.5	39.8
5703	—0.10	+ 0.6	49.2
5707	—0.52	— 0.5	44.5
5710	—0.52	+ 1.2	45.0; 43.7
5711	+0.24	— 8.9	51.7
5712	—0.22	— 3.2	49.9
5713	—0.32	+ 4.8	43.6; 42.4
5716	+0.25	— 1.4	36.2
5717	+0.13	+ 2.9	46.3; 47.2
5719	+0.28	+ 1.7	51.0
5720	+0.54	— 7.8	47.9
5721	—0.62	— 1.7	46.0
5722	—0.39	— 2.2	41.6
5726	—0.98	—15.4	43.1
5727	—0.06	+ 1.9	49.4; 51.8
5728	—0.19	— 7.4	43.6
5729	+0.09	+ 1.9	46.1
5731	+0.05	+ 4.1	42.7
5732	+0.21	+ 0.7	48.2
5734	—0.09	— 5.3	43.9
5736	+0.15	+ 2.4	52.2
5738	—0.61	—13.1	40.1; 37.5
5740	—0.25	— 0.8	42.9
5742	+0.12	+ 0.2	49.0

Cat. №	Warsch. - München		
	Δα	Δδ	Δ Ep.
	s	″	a
5744	+0.93	+ 2.8	43.4
5746	—0.09	+ 0.1	45.6
5748	—0.33	—11.4	45.5
5750	+0.02	— 5.3	45.3
5752	—0.07	— 3.9	41.3
5759	—0.22	— 1.5	41.8
5760	—0.12	+ 1.5	40.0
5765	+0.09	+ 0.7	41 3
5766	+0.08	— 7.2	50.7
5768	—0.41	+ 0.1	45.9; 50.9
5773	—0.30	+ 2.9	40.0
5774	+0.02	— 8.2	49.6
5777	—0.56	— 3.1	40.6
5780	+0.18	— 6.5	46.7; 46.0
5781	—0.04	— 9.5	43.2
5783	—0.30	— 2.6	42.6
5784	—0.49	— 2.4	42.9
5786	—0.04	— 0.4	38.8
5789	—0.11	— 2.3	44.5
5791	—0.06	+ 4.6	39.5
5792	—0.25	— 5.5	50.0
5801	—0.55	— 3.2	41.8
5803	+0.12	+ 6.1	41.5; 40.9
5804	+0.14	— 2.1	52.0
5807	+0.13	+ 4.3	39.3
5808	—0.39	— 4.4	47.4; 48.8
5809	—0.13	+ 1.4	42.0; 40.2
5811	—1.04	— 3.6	51.9
	23h		
5813	+0.44	— 0.8	40.0
5814	—0.45	— 2.5	52.0
5817	—0.18	— 2.3	41.0
5819	+0.38	+ 3.8	37.2
5823	—0.29	+ 2.1	44.5
5824	—0.28	+ 0.1	37.2
5826	—0.31	+ 2.2	39.1
5828	—0.31	— 0.4	44.4
5831	—0.16	— 9.0	40.3
5834	—0.04	+ 2 1	48.0
5835	+0.17	— 2.9	53.1
5836	—0.25	— 1.6	49.9
5837	—0.01	— 4.1	41.1
5838	—0.38	+ 0.5	45.0
5839	—0.10	— 6.5	40.5; 39.0
5840	+0.09	— 5.5	49.6

Cat. №	Warsch. - München		
	Δα	Δδ	Δ Ep.
	s	″	a a
5841	—0.01	+ 1.3	42.3; 46.0
5845	—0.05	— 4.4	44.3
5847	—0.17	— 3.4	48.2
5850	+0.33	+ 1.3	46.2
5853*)	+0.55	— 7.8	46.5
5856	+0.04	+ 1.2	47.7
5859	—0.37	— 6.4	48.1; 47.3
5862	+0.02	+ 5.4	38.5
5866	—0.02	+ 3.9	48.8; 47.0
5868	+0.06	+ 0.6	43.8
5872	—0.32	— 3.3	43.5
5875	+0.12	+ 3.0	47.3
5877	+0.10	—13.8	46.9
5880	—0.24	— 4.7	40.4
5894	—0.04	— 6.8	43.9; 43.1
5905	—0.67	+ 5.2	43.6; 44.2
5912	—0.33	— 1.2	41.1
5915	—0.07	— 1.0	52.4
5918	—0.14	+ 1.2	43.0; 48.2
5919	—0.09	+ 1.3	45.2
5923	+0.30	— 6.5	47.0
5924	—0.04	— 0 4	48.8
5926	—0.33	+ 0.8	47.7
5930	+0.21	— 8.9	47.5
5931	—0.09	+ 6.6	48.1
5933	—0.18	— 6.2	45.5
5946	—0.06	+ 1.5	53.1
5951	+0.47	+ 0.9	56.2
5953	+0.19	— 7.3	48.2
5956	—0.04	— 0.4	45.0
5958	—0.34	+ 0.1	50.1
5960	—0.35	— 1.7	49.6
5963	+0.20	— 2.0	45.1; 46.3
5971	+0.23	+ 4.2	45.5
5972	—0.31	+ 1.2	40.8
5976	—0.39	— 5.0	49.6
5980	—0.54	— 3.1	47.7; 47.2
5984	—0.20	— 0.4	51.2
5996	—0.03	— 1.9	40.0
5997	—0.09	— 2 8	48.5
6000	+0.47	— 3.2	40.1
6004	—0.07	— 1.1	43.8
6005	—0.02	— 1.0	45.6
6009	—0.13	— 5.9	42.3
6015	—0.26	— 3.9	41.5
6035	+0.13	— 8.4	48.9
6040	—0.10	— 0.9	47.7

*) 5853 m. p. +0s.0134; —0″.065 *Bauschinger* l. c. № 89.

II. VERGLEICHUNG MIT DEM MÜNCHENER STERNVERZEICHNISSE, II. BD.

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	0^h	
	s	″
5	−0.07	+3.5
7	+0.20	−0.2
32	−0.02	+0.6
61	−0.03	+2.2
63	−0.12	−1.4
81	−0.01	+1.7
86	−0.10	+1.8
90	+0.25	−0.9
95	−0.05	0.0
97	+0.23	−3.0
100	−0.08	+0.7
105	−0.12	+0.3
140	+0.04	+0.9
145	−0.27	+0.3
157	−0.21	+0.9
	1^h	
233	−0.09	+1.5
245	+0.23	−0.9
258	+0.06	+1.8
273	+0.10	−1.2
291	−0.09	−1.8
301	+0.07	+1.2
313	+0.04	−2.2
	2^h	
351	0.00	−0.4
355	−0.09	−1.9
358	−0.14	−2.5
362	+0.18	−2.1
369	−0.01	−3.9
422	−0.11	+0.5
424	+0.34	−0.1
425	+0.15	−0.7
430	+0.11	−0.8
439	+0.16	+1.0
453	+0.14	−1.7
483	+0.03	−0.3
489	−0.09	−0.4
493	+0.01	+0.7
497	+0.42	−3.0
498	+0.25	+2.7
	3^h	
537	+0.15	−2.1
541	−0.18	−3.6
546	+0.19	−1.6
549	−0.04	−9.1
558	+0.08	−0.9
567	+0.25	−1.1
576	+1.00	−1.6
580	+0.11	+1.6
591	−0.25	−7.1
596	−0.01	−2.0
599	+0.28	−3.3
600	−0.10	+2.8
612	+0.04	+2.4
619	+0.15	0.0
623	+0.12	−1.0
633	−0.16	−0.5
638	+0.03	−6.9
643	+0.03	−4.5
647	+0.35	−0.1
655	+0.06	+1.9
667	+0.02	−2.1
	4^h	
	s	″
690	+0.06	−0.9
694	−0.03	−1.5
696	0.00	+0.2
703	+0.05	+0.5
705	−0.02	−5.5
712	+0.08	−0.6
713	+0.10	+1.9
716	−0.04	+0.9
725	+0.03	−1.8
726	+0.13	−0.5
731	−0.28	−1.5
740	+0.08	+0.3
761	+0.08	−1.5
771	+0.12	+5.4
779	+0.34	−6.7
787	+0.14	+0.7
791	−0.03	+0.8
797	+0.16	+3.7
804	+0.08	−0.3
812	+0.31	+3.0
814	+0.24	−2.3
819	−0.16	−0.7
822	+0.25	−1.4
826	−0.15	−4.2
857	+0.25	+0.8
863	+0.26	−3.8
865	+0.01	−1.3
875	+0.05	−0.1
891	−0.05	−3.8
904	+0.21	−5.2
	5^h	
929	−0.14	−1.7
931	−0.12	−0.5
937	+0.19	+4.1
938	+0.20	−1.2
940	−0.06	+0.5
970	−0.09	+1.7
989	+0.01	−4.3
1003	−0.08	+4.8
1023	+0.10	−3.2
1025	−0.15	+1.2
1051	+0.05	+2.7
1080	−0.09	+1.2
1117	−0.32	+5.5
1128	−0.04	−0.9
1183	+0.12	−1.3
1192	+0.17	−0.4
1226	+0.09	+1.2
1239	−0.08	+11.5
1250	−0.01	+2.0
1252	+0.22	+0.1
	6^h	
1290	−0.07	+0.8
1304	−0.06	+3.7
1329	+0.18	+0.8
1388	−0.09	+1.0
1422	+0.01	+3.6
1430	+0.36	−7.4
1439	+0.13	−5.7
1440	+0.04	+1.6
1466	+0.02	+1.5
1508	−0.09	+1.6
1550	−0.15	+0.9
1586	−0.06	+2.2
	s	″
1594	+0.04	−2.4
1622	+0.16	+2.8
1635	0.00	−1.9
1636	+0.25	−1.6
1644	+0.11	−3.4
1658	−0.10	+7.5
1681	+0.01	−2.1
	7^h	
1727	−0.19	−0.4
1739	+0.09	+3.3
1747	−0.16	+2.7
1772	+0.18	−2.3
1810	−0.34	+4.0
1822	+0.07	−5.5
1836	−0.05	−7.0
1856	+0.07	−1.1
1865	−0.30	+2.1
1868	−0.24	−2.6
1882	−0.25	+1.1
1886	−0.22	+5.8
1891	−0.05	−1.9
1896	+0.34	+1.2
1902	−0.23	−2.3
1931	−0.10	+0.1
1954	−0.41	+1.3
1958	+0.08	−1.3
1960	−0.06	+2.9
1973	+0.16	−2.0
1985	+0.01	+2.2
2015	−0.85	+7.5
2026	−0.05	+0.6
2034	0.00	0.0
2059	−0.02	+3.3
2061	−0.09	−0.2
2083	−0.03	−0.8
	8^b	
2102	−0.16	−1.8
2113	+0.11	−4.9
2116	−0.03	−3.3
2132	−0.08	−0.2
2163	−0.18	−0.3
2164	+0.10	0.0
2168	−0.01	+1.6
2170	+0.01	−1.4
2175	+0.12	−2.9
2177	+0.01	−4.6
2182	+0.07	+1.0
2183	−0.29	−0.6
2184	−0.06	−2.6
2186	−0.10	+0.5
2192	−0.08	−0.2
2200	−0.04	−2.2
2211	+0.13	+1.8
2213	−0.04	−3.1
2215	−0.05	−1.6
2220	−0.02	+1.6
2221	+0.18	−5.1
2222	+0.10	−3.1
2225	0.00	−0.8
2235	+0.20	−3.2
2242	−0.11	+1.6
2244	+0.05	+2.5
2249	+0.09	−1.3
2250	−0.24	+1.8
2251	+0.02	−1.8
2257	−0.09	+0.6
	s	″
2258	−0.15	+1.9
2261	+0.63	−1.7
2268	−0.06	0.0
2276	+0.01	+1.7
2279	−0.01	+1.9
2289	+0.04	+0.5
2291	+0.10	−0.1
2297	−0.12	−1.7
2298	+0.15	−2.5
2300	−0.10	−4.0
2303	−0.24	+0.3
2304	+0.50	+0.9
2315	+0.04	−2.7
2322	−0.21	−0.6
2323	+0.21	+0.4
2328	0.00	−3.9
2365	−0.08	−5.7
2372	+0.12	−0.3
2374	+0.02	+0.1
2378	−0.05	+4.2
2382	−0.03	+0.1
2385	+0.06	+1.8
2388	−0.07	−4.6
	9^h	
2402	−0.01	−1.9
2423	−0.02	−1.4
2435	+0.38	−1.0
2441	−0.02	−0.6
2457	−0.02	−1.7
2465	+0.12	+3.8
2488	−0.01	−1.7
2490	−0.04	−1.1
2493	+0.34	+0.8
2497	+0.57	−3.1
2504	−0.08	−3.3
2506	−0.03	−5.3
2507	+0.02	+1.4
2513	+0.20	−4.2
2515	−0.28	−2.0
2526	−0.11	+3.4
2538	+0.08	−3.7
2539	+0.05	−0.6
2541	+0.13	−2.4
2562	+0.09	−1.4
2563	+0.01	−2.9
2574	−0.32	+0.3
2576	+0.27	−3.3
2585	0.00	−0.7
2586	−0.11	−3.5
2591	−0.03	−0.2
2598	0.00	−1.7
2604	+0.20	−3.1
	10^h	
2619	−0.24	−3.0
2620	−0.05	−2.1
2622	−0.38	−0.9
2633	−0.19	−1.0
2641	+0.10	+0.5
2647	+0.10	−2.4
2649	−0.23	−2.6
2653	−0.12	−7.6
2664	−0.13	−1.5
2669	+0.20	+2.6
2671	+0.05	−0.5
2678	−0.21	−2.5
2687	−0.21	+2.0
	s	″
2691	+0.12	−0.8
2698	+0.15	+0.3
2700	+0.20	−0.2
2705	+0.09	+0.7
2716	−0.10	−1.8
2736	−0.01	+0.3
2742	+0.16	+2.4
2743	+0.08	−2.6
2745	+0.07	−1.7
2749	+0.11	−3.7
2755	+0.29	+1.2
2759	+0.01	−0.6
2764	+0.37	−1.9
2773	+0.14	−1.2
2784	−0.03	−0.5
2786	−0.08	0.0
2789	+0.27	−2.4
	11^h	
2809	+0.06	−3.5
2814	+0.17	−0.5
2828	+0.17	−2.0
2840	+0.21	+0.6
2849	+0.12	+0.6
2852	+0.64	+2.9
2876	−0.02	−4.0
2877	−0.03	−7.3
2878	+0.15	−1.3
2881	+0.06	−5.8
2909	+0.23	−0.9
2910	+0.17	−1.8
2912	−0.06	−5.3
2913	+0.04	+3.0
2918	+0.29	+0.1
2924	−0.09	+4.6
2929	+0.10	−2.2
2934	+0.28	+0.3
2935	+0.34	−1.1
2942	+0.22	−4.2
2947	−0.18	0.0
2958	+0.03	−3.8
2963	−0.03	−0.9
2967	+0.22	+3.3
2970	−0.10	−2.1
2977	+0.35	−0.2
2985	−0.01	−0.5
2986	+0.17	−6.2
2992	+0.02	−4.5
2993	+0.21	0.0
2994	−0.06	−2.2
	12^h	
3000	−0.04	−0.4
3001	+0.15	0.0
3006	+0.31	−0.9
3009	−0.22	+1.1
3015	+0.17	−1.4
3017	+0.43	+2.3
3018	+0.03	−2.2
3024	+0.04	−0.5
3025	+0.17	−1.5
3029	−0.01	+4.4
3030	+0.03	+1.4
3032	+0.18	−2.8
3037	+0.13	+2.2
3038	+0.01	+4.1
3043	+0.06	−8.5
3047	+0.01	−5.9

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	s	″
3054	+0.06	−4.7
3056	+0.01	+4.8
3062	−0.07	+7.2
3063	−0.05	−1.8
3067	+0.11	0.0
3100	−0.13	−2.9
3103	−0.07	+1.2
3104	−0.11	−0.1
3108	+0.03	−1.3
3115	−0.05	−7.4
3117	+0.04	−3.5
3119	−0.03	+1.2
3122	+0.09	+0.2
3123	+0.25	+0.9
3125	+0.12	−0.1
3130	+0.04	−2.2
3137	+0.14	−0.8
3138	−0.03	−2.8
3141	+0.24	+2.3
3146	+0.15	+1.0
3147	+0.10	+1.9
3157	+0.13	−3.2
3158	−0.04	−1.3
3161	+0.16	−1.9
3162	−0.04	−3.6
3166	−0.08	−0.2
3168	−0.04	+1.0
3170	+0.29	−1.1
3181	−0.01	−0.5
3183	+0.05	−2.6
3186	+0.16	−2.1
3187	+0.17	+0.5
3191	+0.04	+0.5
3194	+0.02	+1.7
3207	+0.36	−5.5
3211	−0.02	+3.8
3217	−0.07	−4.6
	13h	
3222	−0.06	+1.4
3228	+0.01	+5.7
3233	+0.15	−0.1
3243	+0.01	−1.1
3250	+0.06	+7.0
3277	+0.47	−0.3
3279	+0.02	+4.8
3280	−0.06	+0.8
3288	−0.13	−0.8
3293	+0.34	+5.1
3295	+0.01	+1.0
3299	+0.35	+0.6
3305	−0.08	−1.4
3314	−0.14	+2.8
3317	+0.15	−1.0
3333	+0.16	−1.4
3346	−0.14	+1.0
3348	+0.07	−1.3
3349	+0.06	−1.7
3364	−0.03	−1.1
3374	+0.06	−1.2
3376	−0.07	−2.3
3378	−0.03	−2.8
3392	+0.02	−1.6
3403	−0.03	+5.0
3407	−0.01	+2.5
3416	+0.05	−0.6
3418	+0.05	−3.7
3427	+0.03	−4.1
3434	+0.05	+0.1

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	s	″
3436	−0.04	+5.8
	14h	
3451	−0.16	−0.3
3460	+0.33	+6.1
3502	−0.04	−2.1
3508	−0.12	+1.5
3516	+0.06	+2.3
3526	−0.25	−0.6
3527	+0.20	+1.1
3537	+0.11	−1.4
3539	+0.26	+1.4
3554	+0.36	+0.4
3557	+0.14	−4.3
3573	0.00	−3.3
3582	−0.24	−2.0
3585	+0.09	−1.9
3601	+0.01	−2.0
3618	−0.10	−3.8
3625	−0.19	−0.1
3626	+0.10	−2.0
3639	−0.17	−0.5
3650	+0.02	−5.2
3658	+0.11	−0.2
	15h	
3667	+0.10	−4.3
3708	−0.01	−0.5
3719	−0.01	−2.0
3780	+0.04	+2.2
3800	+0.16	+2.7
3840	−0.04	−2.5
3843	+0.19	−1.7
	16h	
3863	+0.50	+ 5.9
3904	−0.15	+ 0.6
3907	−0.04	+ 4.5
3911	+0.60	− 6.8
3913	−0.27	+ 0.8
3922	+0.08	− 1.5
3924	−0.01	− 1.9
3934	−0.25	+ 0.6
3938	−0.08	+ 4.1
3948	+0.19	− 1.8
3953	−0.21	+ 1.2
3969	+0.19	− 0.6
3973	+0.14	+ 4.2
3981	−0.04	+ 1.8
3985	+0.09	− 5.2
3989	−0.34	+ 0.6
3994	+0.11	− 3.2
4005	−0.04	− 1.3
4011	+0.22	− 2.2
4033	+0.17	+ 3.4
4040	+0.30	− 0.1
4059*)	+0.43	+10.4
	17h	
4164	−0.04	−2.9
4171	+0.56	−7.9
4191	+0.37	−6.6
4193	+0.19	+0.1
4207	+0.05	−2.9
4216	+0.30	−3.2
4217	−0.02	−1.9

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	s	″
4228	+0.12	+1.0
4233	+0.11	−4.2
4240	+0.17	−1.7
4242	−0.11	−0.8
4260	+0.11	+2.7
4264	−0.12	+1.0
4279	+0.05	−2.1
4280	+0.07	−1.5
4281	+0.08	−1.3
4285	−0.02	−0.4
4287	−0.09	+0.7
4293	+0.01	−4.7
	18h	
4316	0.00	− 2.9
4318	−0.10	+ 0.4
4327	+0.06	− 2.4
4329	−0.19	− 2.0
4342	−0.26	− 4.3
4348	+0.08	− 2.7
4352	+0.04	− 1.0
4361	−0.06	− 4.0
4375	+0.07	− 1.9
4376	−0.17	+ 1.9
4380	−0.03	− 3.6
4383	+0.03	− 4.0
4399	−0.07	− 0.4
4401	+0.12	− 1.9
4428	+0.02	−10.6
4430	+0.10	− 0.7
4452	+0.05	− 1.3
4453	−0.10	− 5.1
4454	−0.01	− 2.5
4455	+0.03	− 5.1
4458	+0.26	− 8.7
4480	+0.14	− 4.6
4495	−0.01	− 3.4
4502	+0.10	− 3.5
4503	−0.10	− 3.2
4514	−0.15	− 3.0
4523	+0.12	− 2.3
4555	+0.31	− 1.1
4588	+0.18	+ 1.8
4589	+0.03	− 1.0
4590	−0.20	+ 1.1
4592	+0.02	− 5.0
4595	0.00	− 4.3
4597	−0.08	− 1.9
	19h	
4648	+0.08	+0.4
4661	+0.11	−4.7
4669	+0.19	−1.8
4678	+0.03	−3.1
4703	−0.12	−0.4
4730	+0.06	−8.6
4740	−0.07	−0.1
4752	−0.07	−1.7
4755	−0.08	−4.0
4757	−0.17	+2.0
4759	−0.10	+4.8
4766	−0.04	+3.6
4771	−0.04	−2.1
4774	−0.10	+0.3
4787	−0.05	+4.4
4801	−0.13	+0.2
4818	+0.10	−3.0
4823	+0.04	+0.9

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	s	″
4827	+0.14	−5.7
4829	+0.11	0.0
4859	+0.02	+3.4
4866	−0.05	−1.7
4868	+0.19	+3.2
4876	−0.12	+1.7
4877	−0.19	−4.4
4892	+0.14	−0.6
4908	−0.15	+0.7
4911	+0.10	−0.3
	20h	
4941	−0.25	+2.0
4954	−0.04	−3.6
4964	+0.13	−4.5
4971	−0.17	−1.7
4977	−0.08	+4.6
4983	+0.05	−2.4
4984	−0.02	+1.7
4990	+0.16	−2.3
5008	+0.15	−4.1
5011	+0.34	−2.1
5016	+0.20	−1.7
5017	+0.21	−5.9
5049	+0.13	−0.2
5052	+0.08	+0.1
5064	−0.08	−1.9
5101	+0.03	−0.2
5106	+0.01	−0.2
5112	+0.20	+0.6
5124	−0.19	+0.2
5126	+0.12	+2.4
5136	+0.13	+2.0
5139	+0.06	−0.6
5140	−0.04	+0.9
5146	+0.19	+0.5
5152	+0.69	+4.0
5155	−0.10	−3.2
5162	+0.31	−3.1
5167	+0.29	+1.6
5175	−0.19	+0.2
5178	−0.11	−0.5
5183	−0.05	−0.4
5186	+0.16	−2.1
5198	+0.18	+0.9
5207	+0.06	+0.1
5214	−0.09	−4.0
5217	+0.06	−0.4
5226	+0.07	+1.1
5234	+0.33	+0.2
5235	+0.18	−0.9
5245	+0.35	−5.8
5253	−0.02	+0.9
5254	+0.02	−0.8
5255	−0.18	−0.5
5266	0.00	+0.2
5267	−0.27	−0.9
5280	−0.16	+2.6
5288	−0.03	−0.2
5298	−0.14	−6.0
5301	+0.13	−4.9
5302	+0.03	−2.7
	21h	
5312	+0.08	−0.7
5320	−0.09	−0.3
5326	+0.12	−5.0
5327	+0.06	−3.4

Cat. №	Warsch.-München Δα	Warsch.-München Δδ
	s	″
5328	+0.08	−1.9
5352	−0.05	−0.6
5355	+0.16	−1.0
5371	+0.01	−3.8
5375	+0.11	−3.2
5383	−0.27	−0.8
5385	−0.19	−2.7
5389	+0.26	−3.0
5395	+0.34	−3.0
5413	+0.46	−1.3
5424	−0.12	−4.9
5460	−0.20	0.0
5471	+0.01	−2.9
5475	−0.09	+0.4
5480	+0.03	−6.3
5486	+0.08	+1.0
5487	+0.13	−3.8
5490	+0.26	−6.8
5491	−0.15	−2.3
5495	−0.06	+0.9
5499	+0.09	−3.8
5500	−0.10	−1.1
5503	+0.09	−6.0
5511	−0.19	−2.2
5517	+0.35	−0.3
5521	+0.36	+2.5
5525	−0.17	−3.8
5534	−0.24	−1.4
5540	+0.43	+3.8
5543	+0.12	−2.1
5548	+0.04	−2.2
5552	+0.35	−5.6
5553	−0.16	−0.4
5556	+0.28	−1.2
5563	−0.16	−4.7
5574	+0.01	+1.7
5576	−0.33	−3.7
5578	+0.03	+0.8
	22h	
5615	−0.03	−3.7
5618	+0.13	−3.7
5621	−0.07	−0.8
5625	−0.04	+0.7
5632	+0.39	−1.1
5634	+0.27	+1.8
5642	−0.11	−1.2
5645	+0.26	−2.4
5660	+0.02	−0.3
5667	+0.13	+1.4
5669	+0.07	−3.8
5671	−0.07	+0.4
5674	−0.06	−4.0
5676	+0.02	+4.8
5682	+0.13	+0.1
5699	0.00	+0.8
5703	+0.12	−2.8
5711	−0.23	−1.7
5712	+0.18	−4.1
5714	+0.21	−4.0
5721	−0.23	−0.3
5722	+0.18	−0.7
5727	+0.11	−0.9
5729	+0.36	−2.2
5730	+0.05	−1.4
5738	+0.10	0.0
5740	−0.14	−0.7
5742	+0.07	+1.4
5744	+0.01	−3.6

*) 4059 *m. p.* —0″0648; —1.″117 *Bauschinger. Eigenbewegung* von 90 telescopischen Sternen. № 53.

Cat. №	Warsch.-München Δα	Δδ
	s	″
5760	+0.07	−0.4
5768	−0.03	+2.1
5778	+0.28	−2.2
5783	−0.13	−1.0
5787	+0.05	+0.6
5790	+0.16	−1.1
5804	0.00	−0.3
5811	−0.08	−1.1
	23h	
5816	+0.07	−2.5
5834	+0.09	−2.9
5837	+0.37	−3.8
5839	−0.01	−2.3
5840	+0.21	−2.7
5847	+0.13	+1.0
5849	−0.02	−1.8
5853	+0.18	−1.5
5856	−0.04	+0.1
5868	+0.20	−0.3
5877	+0.15	−5.3
5949	+0.17	+0.4
5951	+0.37	+2.7
5957	+0.14	−0.8
5958	+0.04	+1.5
5960	+0.04	0.0
5984	−0.10	+1.2
5996	+0.02	−1.0
5997	+0.10	−0.7
6003	−0.17	−0.1
6015	−0.04	−2.5
6016	−0.05	−0.8
6024	−0.03	−1.8

III. VERGLEICHUNG MIT DEM CATALOG DER ASTRON. GESELLSCHAFT, ZONE —2° BIS +1°, NICOLAJEW.

Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.
	0h		
	s	″	a
3	+0.09	− 0.1	− 0.3
9	+0.04	− 2.6	+ 0.1
21	+0.08	− 0.6	+ 5.7; 4.9
26	+0.06	− 1.2	− 1.7
32	+0.11	+ 1.2	+ 2.3
39	+0.05	+ 1.2	+ 5.9; 6.1
58	+0.07	+ 3.0	+ 3.9
65	0.00	+ 1.4	+ 6.1
75	+0.09	+ 0.2	+ 0.8; 1.8
91	+0.19	+ 0.2	+ 3.0
105	−0.05	+ 1.0	− 0.6
118	+0.02	− 0.7	− 1.4; −0.4
124	+0.10	− 1.1	+ 1.5; −2.6
125	+0.01	− 3.0	+10.6; 8.0
144	+0.03	0.0	+ 1.6
157	−0.07	+ 1.4	− 3.6
	1h		
184	0.00	− 2.5	+0.8
195	−0.03	0.0	−0.3
205	−0.01	− 1.5	+1.2
292	+0.04	− 0.3	+2.3
295	+0.08	+ 0.4	+0.6; −1.5
298	−0.03	− 2.4	+1.8; −0.1
	2h		
440	−0.02	0.0	+2.1
451	+0.05	+ 2.9	+2.5
464	−0.03	− 0.1	−2.8
489	−0.05	+ 1.3	+1.0
493	+0.11	+ 0.2	+3.0
	3h		
537	+0.23	+ 1.0	+4.8
540	+0.32	− 0.8	−2.5; −5.3
541	−0.06	− 3.2	+0.6; +3.6
547	−0.03	− 1.1	+3.4
549	+0.04	+ 2.0	+2.5
580	+0.03	+ 2.2	+1.9; +0.9
590	+0.17	− 3.8	+1.8
596	+0.11	− 1.9	+0.2; −3.0
	s	″	a a
599	+0.17	+ 1.1	+ 1.8; +7.5
623	+0.03	+ 0.5	+ 0.6; 2.9
629	+0.07	+ 1.6	− 1.2; −1.5
633	0.00	+ 1.5	+ 3.4; +1.4
638	−0.10	− 3.1	− 5.7
655	+0.20	+ 4.5	+13.1
659	−0.01	+ 2.3	+ 1.6
667	−0.03	− 1.0	− 1.0
669	+0.04	+ 3.7	− 0.3; −2.4
670	+0.07	+ 2.1	− 0.4; +2.4
	4h		
690	+0.03	0.0	−5.1
705	+0.03	− 4.3	−6.8
740	+0.11	+ 0.9	−0.8
761	+0.21	− 0.5	−8.5
837	−0.06	+ 2.7	−2.7; −6.4
839	+0.02	+ 1.1	+1.8; +4.0
842	−0.22	− 1.6	−3.3; −2.0
876	+0.12	− 0.4	−0.4
888	+0.20	− 5.2	+6.0
904	+0.09	− 2.8	+6.5
	5h		
928	+0.08	− 0.9	+2.3
933	−0.02	− 4.3	+7.0; 6.1
955	−0.05	+ 3.7	+9.1
959	−0.03	− 0.6	−1.5
975	−0.02	+ 2.0	+2.5
1003	+0.05	+ 5.7	−5.0
1004	+0.06	− 0.1	−1.0
1021	−0.04	+ 0.5	−2.3
1025	−0.04	+ 0.8	−4.3; −2.4
1027	+0.08	− 2.4	+2.8
1037	+0.07	− 1.3	−3.8
1051	+0.18	− 1.0	+0.4
1055	−0.02	− 2.7	+0.5; −1.9
1063	+0.12	+ 3.0	−6.1
1074	+0.07	− 0.6	−1.3
1094	+0.18	+ 2.6	−4.3; −10.9
1099	+0.02	− 1.7	−4.7; 3.5
1109	+0.15	− 3.5	+2.0;
1112	−0.05	+ 2.7	+1.5
1114	+0.01	− 1.4	−2.0
	s	″	a a
1128	+0.05	−2.6	−1.9; +0.9
1136	−0.11	−0.6	+2.0; −0.4
1141	+0.04	+0.1	+1.3; +2.5
1183	−0.08	−2.3	−1.7; +1.0
1186	+0.09	+1.0	−1.4
1187	−0.02	−0.5	−0.3
1192	+0.24	+2.1	+1.6
1199	−0.09	+1.2	−8.3
1207	+0.17	+0.4	+1.1
1214	−0.01	+0.6	−0.2
1225	0.00	+1.0	+4.6
1233	−0.07	+0.6	+0.8; −0.3
1236	+0.07	−1.6	−1.2
1251	−0.04	−0.3	−0.7
1252	+0.17	+1.9	−3.4
1269	+0.01	+2.6	−4.4; −5.0
1275	+0.18	+2.4	+3.8
	6h		
1285	+0.02	+0.1	− 4.5; −3.4
1290	−0.01	+0.7	+ 0.8
1295	−0.03	−2.8	− 0.7; −2.6
1305	−0.01	+1.4	− 2.7; −3.5
1355	+0.12	+1.8	+ 1.7
1357	−0.02	−3.1	+ 1.2; +4.5
1361	−0.07	+6.1	− 2.5
1371*)	+0.13	+0.1	−10.9
1379	−0.08	−2.5	− 1.0
1384	+0.09	+3.0	− 0.6
1392	+0.11	+4.2	+ 1.0
1393	−0.11	−3.5	− 0.5
1401	−0.07	+1.3	0.0
1404	0.00	+2.2	+ 1.9
1440	+0.10	+0.4	+ 6.9
1458	−0.03	+7.1	− 8.4
1466	+0.05	+3.3	+ 5.9; +6.9
1469	+0.15	−0.4	+ 3.4
1471	−0.25	+2.1	+ 2.5
1481	+0.09	−2.9	+ 5.4
1532	−0.13	+1.5	+ 4.9
1558	−0.04	+0.5	− 4.2; −9.1
1563	−0.13	−0.6	− 3.1; −0.4
1577	+0.04	−1.3	− 4.8; −4.1
1579	−0.33	−4.3	− 1.9
1610	+0.18	−2.5	− 2.8; −0.3
	s	″	a
1614	+0.02	+1.2	+0.4
1635	+0.05	−1.3	−1.0
1644	−0.01	−3.6	−3.8
1645	−0.03	−1.6	−8.1
1669	−0.01	−6.6	−1.9
1672	+0.08	+3.7	0.0
1681	+0.10	−1.2	−1.4
	7h		
1714	+0.05	+2.4	− 7.5
1831	+0.22	+0.4	− 5.6
1836	+0.06	−5.2	0.0
1868	−0.05	−0.9	− 6.6
1993	+0.16	+1.4	−11.1
2018	+0.05	0.0	+1.0; −1.5
2061	−0.01	+1.8	+0.5
2067	+0.01	−3.1	−1.2
	8h		
2208	−0.13	−3.0	−2.0
2215	+0.03	−1.6	+3.8
2288	+0.11	−1.5	+7.9
2293	−0.09	+0.2	−2.5
2310	+0.03	−1.2	+1.4
2372	+0.07	−1.1	+4.7
2378	0.00	+4.4	−8.6; +1.0
2388	−0.01	−1.3	+6.0
2392	−0.01	+0.1	+2.7
	9h		
2400	−0.05	−1.0	+1.0
2409	+0.09	+1.0	−0.1; +0.9
2438	+0.01	−2.4	0.0
2550	−0.12	−0.6	−2.0
2563	−0.05	−1.8	+1.0
2566	−0.06	−1.0	+4.0
2577	−0.05	−2.9	+0.1
	10h		
2624	+0.23	+6.6	−6.5
2632	+0.08	−1.9	−6.6
2647	+0.09	−1.6	+0.4

*) 1371 Warschau δ—1′

Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.
	s	"	a
2652	—0.02	+0.3	—2.0
2653	—0.12	—4.4	0.0
2683	—0.18	—4.9	+0.5
2692	+0.12	—2.0	+0.5
2699	—0.01	—2.0	0.0; —1.1
2704	—0.05	—0.7	—2.0
2726	0.00	—2.7	+1.7
2741	+0.06	—0.1	+1.0
2757	—0.04	—3.7	+6.9; +4.9
2760	+0.03	—3.2	+6.5; +8.5
2781	—0.06	—0.8	—0.7
2786	—0.14	—2.5	+0.7
2797	+0.04	—3.3	—2.5; —2.7
2800	—0.04	+0.8	—0.5
2803	+0.06	—0.9	+1.2
	11^{h}		
2814	+0.20	—0.3	+3.0
2823	—0.21	+0.2	+2.5
2832	+0.14	0.0	+3.6
2848	+0.09	—1.8	+4.6
2856	—0.07	+3.5	+4.9
2860	—0.01	—0.6	—2.0
2863	+0.19	—1.3	+5.4; +3.0
2865	+0.07	—3.2	+6.3; +7.4
2873	+0.08	—2.4	+8.0
2898	+0.04	—1.8	+4.4
2901	+0.13	+1.6	+0.5; —3.0
2906	+0.05	+1.7	—2.0
2908	+0.07	—1.1	+2.2
2916	+0.08	—0.6	+3.5
2925	+0.03	—1.0	+9.0
2948	—0.04	—0.2	+6.0
2970	+0.08	—1.9	+5.4
2984	—0.01	—5.2	+5.8
2993	+0.06	+1.5	+6.2
	12^{h}		
3021	+0.01	+1.7	—1.1
3087	+0.04	—0.9	—0.9
3131	+0.10	+0.3	+3.6
3144	—0.09	—2.3	+6.0; +5.5
3145	+0.04	—2.0	—7.2
3149	—0.03	—2.9	+1.6. +2.8
3151	—0.16	—2.7	+1.0
3173	0.00	+3.1	+7.0
3192	+0.07	—1.6	—0.3;— 1.0
3197	+0.03	+1.2	+1.5
3204	+0.02	—3.3	+1.1
3216	0.00	—1.4	+1.7
	13^{h}		
3221	+0.19	+3.8	+2.9
3230	+0.10	—2.9	+2.3
3231	0.00	+0.6	+1.0
3239	+0.08	+1.2	—3.9
3244	+0.07	+0.2	+2.9
3248	+0.07	+0.2	—4.0
3262	+0.05	—0 7	+5.9
3304	—0.15	+0.3	+4.6
3313	+0.08	—0.8	+1.6
3318	—0.03	—2.2	+5.0
3323	+0.01	—1.1	+1.6; +3.3
3327	—0.08	+0.4	—4.0
3336	+0.08	—3.2	+4.0
3338	+0.07	—2.4	+2.6; +1.8
3347	+0.03	—1.1	+1.8
3365	+0.03	—1.9	+1.0
3373	—0.08	—1.2	0.0
3384	+0.06	—3.4	+1.0
	14^{h}		
3469	+0.08	+0.4	+0.4
3511	0.00	—2.5	+1.9
3553	—0.05	—1.4	+4.1
3576	—0.09	—3.4	+7.0
3581	+0.09	—1.1	+2.7
3587	0.00	+0.3	+2.5
3609	+0.01	0.0	+1.8
3617	+0.07	+0.3	—4.9
3641	+0.19	—1.2	+6.0
3643	+0.03	+0.7	+1.1; —0.1
	15^{h}		
3661	0.00	+1.0	+6.0
3664	—0.14	—2.0	+8.3; 7.0
3665	—0.11	—3.2	+2.9
3666	+0.07	—0.8	+2.3
3673	+0.05	—0.8	+5.8; +4.9
3677	—0.07	—1.2	+2.9
3680	—0.02	—2.9	+5.7
3692	+0.06	—2.6	+2.0; +1.2
3695	+0.08	0.0	+3.7
3703	+0.04	—0.9	+2.9
3708	+0.03	—0.5	+1.1
3743	+0.05	—2.2	+5.4
3757	+0.01	—0.6	+2.0
3776	—0.03	—1.8	+7.5
3777	+0.17	+1.6	+9.0
3781	+0.12	—2.3	—0.5; —0.7
3787	0.00	+0.1	+6.4
3799	+0.07	—2.9	0.1
3805	+0.05	—2.0	11.3
3813	+0.02	—1.2	6.6
3823	+0.01	—1.2	2.5
3849	+0.11	—1.6	—0.1
	16^{h}		
3883	—0.05	—0.2	—0.1; —4.5
3889	—0.24	+1.2	+9.0
3895	—0.10	—4.2	+2.0
3914	—0.02	+0.6	+1.0
3917	+0.27	—0.8	+9.5
3918	+0.05	—2.1	+2.2; —0.6
3920	—0.10	—0.2	+2.9; +2.1
3930	+0.06	+1.7	+1.3; +1.6
3937	+0.08	+1.0	+4.0; +4.8
3940	—0.02	+1.3	+6.2; +5.4
3941	—0.16	—0.9	+12.0
3950	—0.06	—1.1	+7.7; +9.6
3953	+0.02	+0.4	+0.8
3963	+0.14	+3.1	—5.2
3977	+0.14	+1.5	+5.0; +2.4
3978	—0.10	+0.1	+10.1
3981	—0.05	+3.9	+6.2; +9.6
3982	—0.04	—1.4	+6.6; —5.5
4006	+0.09	—1.4	+2.0
4012	—0.01	—1.1	+9.9
4034	—0.01	—0.6	+2.6
4040	+0.06	+3.2	+8.0
4044	—0.05	—1.2	+3.0; —4.0
4048	+0.07	+0.4	+5.0; +3.7
4050	+0.11	—0.7	—7.6
	17^{h}		
	s	"	a
4064	+0.16	+1.1	+ 8.9
4068	+0.14	—2.8	—11.4
4072	—0.11	—0.8	— 1.9
4083	+0.01	+0.7	+ 4.0
4107	+0.21	—0.7	+ 3.9
4130	+0.03	—0.3	— 0.8
4145	+0.04	—0.6	+ 6.6
4168	+0.03	+1.1	+ 2.1
4173	+0.11	—3.0	+ 9.5
4186	+0.05	—1.6	+ 8.7
4190	+0.11	—1.3	+10.0
4192	—0.06	+0.8	+ 9.7
4203	+0.02	+0.6	+ 9.3
4206	—0.02	+0.9	+0 8; —3.5
4208	—0.02	—1.7	+0.5; —0.4
4209	—0.03	+1.4	+ 8.9
4235	0.00	+0.5	+ 5.3
4253	—0.09	+0.8	+ 4.9
4274	+0.13	+0.5	+ 2.1
4288	—0.25	0.0	+ 3.6
4290	—0.01	—2.9	+ 6.4
	18^{h}		
4296	—0.01	—0.1	—3.9
4297	+0.07	—1.1	+ 0.8;—0.3
4300	—0.07	+1.1	+3.0; +1.0
4319	+0.15	+0.2	—0.0
4333	+0.08	—1.8	—2.9
4334	+0.22	—1.1	—4.4
4353	—0.06	—3.3	—3.2
4359	+0.08	—3.3	+7.8
4366	+0.02	—1.9	—0.7; —1.8
4368	+0.12	—3.2	+5.6
4371	—0.08	—2.7	+5.4; +8.3
4380	—0.15	—3.5	+1.1
4385	—0.05	—4.9	+7.0
4398	—0.23	—7.3	+1.1
4407	—0.01	+1.7	+1.9
4412	—0.10	—2.6	+1.1
4414	—0.02	+0.2	—0.6; —1.6
4425	+0.11	—1.7	—8.0
4429	0.00	—2.5	—1.2; 0.0
4443	+0.13	+2.2	—0.1
4446	0.00	—0.8	+7.7; +6.7
4449	+0.03	—2.4	+1.4; +3.7
4452	+0.04	+0.2	+7.3
4454	—0.02	—4.5	+4.2; +3.2
4460	—0.19	—3.5	—3.4
4499	—0.07	+1.1	+0.7
4506	+0.01	+1.8	+5.7
4521	—0.13	—1.7	+7.1
4527	+0.03	—1.7	+4.9
4539	+0.05	+1.1	—3.5; —3.3
4545	—0.13	—1.8	+3.7
4551	+0.32	—1.3	+7.1
4558	+0.04	—3.1	—5.7; —6.6
4568	—0.11	—3.5	+3.4
4584	—0.08	—0.8	+3.9
	19^{h}		
4599	+0.02	—0.7	+6.6
4633	—0.02	+2.1	—3.2; +2.6
4635	—0.09	—5.4	+3.9; +4.7
4651	+0.18	—4.0	— 0.1
4662	+0.08	+0.8	— 0.1
4669	+0.04	—0.2	+ 0.4
	s	"	a
4674	+0.07	—2.1	— 2.9
4680	+0.17	+4.2	+12.1
4685	—0.01	—1.6	+7.1; 8.9
4686	0.00	—3.7	+4.9; — 2.1
4693	—0.07	+2.0	+ 0.7
4731	+0.08	—3.9	— 0.9
4756	+0.11	—3.0	+10.4
4763	+0.03	—1.5	+5.2; + 3.0
4778	+0.05	—4.2	+ 1.6
4820	+0.08	—1.5	—1.7; — 3.2
4824	—0.08	0.0	+1.2; + 2.1
4835	—0.01	—0.5	— 5.0
4838	—0.05	+1.5	+ 4.9
4843	+0.04	—1.4	+7.7; +10.0
4845	— 0.10	—3.4	+5.4; + 4.4
4860	+0.22	—5.2	— 4.7
4906	+0.12	0.0	— 3.2
4907	+0.01	—2.1	+1.9; + 0.4
4910	—0.06	—6.2	+ 6.1
4913	+0.12	—0.8	—3.3; — 3.9
4915	—0.14	+0.8	—3.1; — 4.1
4932	—0.02	—0.9	— 0.1
	20^{h}		
4945	+0.05	—3.8	— 0.5
4949	—0.09	+1.9	— 5.1
4961	—0.02	+0.7	+ 0.8
4966	+0.30	—1.3	+ 3.5
4972	—0.14	—1.6	+11.8
4980	—0.02	—5.5	+7.8; +5.2
4982	+0.10	—1.4	+3.6; +5.5
5003	—0.05	—2.2	+ 4.9
5006	—0.06	—0.9	+ 6.6
5014	+0.10	—0.3	— 0.4
5017	+0.07	—3.6	+ 5.9
5036	+0.02	—1.1	+ 0.9
5055	—0.03	—1.6	+ 2.7
5087	—0.01	—2.1	+ 0.8
5097	+0.07	—0.6	— 1.9
5121	—0.12	—1.6	+ 8.9
5150	—0.02	—2.9	— 7.1
5157	—0.04	+0.3	+ 1.0
5162	+0.15	—4.7	— 5.1
5177	+0.10	—2.7	+ 3.0
5182	+0.16	—1.3	—4.2; —3.7
5213	+0.11	+2.0	+ 1.8
5242	+0.18	+0.6	+ 2.6
5243	—0.05	—3.3	+1.8; +3.0
5269	—0.02	+8.2	— 1.1
5279	0.00	0.0	—2.1; —1.1
5286	+0.03	—2.3	+ 2.5
5292	+0.06	+1.5	+ 0.1
	21^{h}		
5334	+0.03	—2.2	—3.6; —4.5
5342	—0.32	+0.7	+ 9.1
5364	+0.16	—3.4	+ 9.4
5376	—0.02	—1.9	+ 3.8
5378	+0.08	—2.6	+ 4.0
5385	—0.16	—1.5	+ 3.9
5416	—0.03	—0.9	+ 0.3
5429	—0.07	—4.3	+ 5.4
5441	+0.02	—4.2	+1.2; +5.4
5449	+0.04	—2.4	+ 3.9
5493	+0.09	—3.1	+ 4.7
5518	—0.02	—4.2	+10.9
5555	—0.07	—4.5	+ 3.9
5583	+0.14	—2.0	+ 3.8

Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.	Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.	Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.	Cat. №	Warsch.-Nicolajew Δα	Δδ	Δ Ep.
	22h								23h						
	s	″	a		s	″	a		s	″	a		s	″	a
5588	+0.11	−4.2	+12.6	5673	+0.06	−4.8	+4.1	5828	−0.05	+2.0	−4.1	5933	+0.04	0.0	+1.6
5594	+0.39	+0.5	+6.9	5730	−0.01	+1.1	+0.4	5831	+0.11	−2.4	+4.8	6015	−0.07	−1.2	−0.4
5604	+0.12	−2.5	+12.4	5766	+0.12	−3.2	+5.7	5880	−0.09	−2.7	−3.7	6035	−0.01	−1.3	+8.7
5656	+0.02	−1.3	+4.7	5783	−0.03	+0.6	+2.3; −0.2	5915	+0.06	+3.2	+13.1				
5666	−0.06	+0.4	+0.3	5797	+0.12	−2.8	+9.2	5923	+0.05	+0.7	+3.0				

IV. VERGLEICHUNG MIT ROMBERG'S CATALOG VON 5634 STERNEN.

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	0h		
	s	″	a
65	−0.01	+1.9	5
89	+0.01	−0.1	8
92*)	+0.40	−2.0	8
123*)	+0.12	−3.0	9
170	+0.02	0.0	12
	1h		
181	−0.01	0.0	7
195	+0.04	−1.0	8
	2h		
363*)	+0.31	−1.9	16
364*)	+0.35	−2.0	11; 8
390	+0.20	−0.6	18
417	−0.06	−0.7	10
448	+0.04	−2.0	5
504	+0.24	+0.1	11
	3h		
570	−0.05	+1.9	8; 7
647	+0.26	+2.3	9
	4h		
723	−0.09	+1.2	8
732	+0.06	−0.6	8
858	+0.10	−2.8	10
880*)	+0.23	−6.2	6
897	+0.10	+0.3	15
	5h		
1084	0.00	−1.7	12
1101	−0.03	−0.4	13; 10

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	s	″	a
1126*)	+0.07	+2.0	12
1141*)	+0.05	0.0	11; 12
1258	+0.08	+0.7	14; 12
	6h		
1286	−0.07	−0.3	7
1312	−0.02	−1.4	10
	7h		
1712**)	+0.08	+0.8	5
1821	+0.14	+0.8	9; 8
2001	+0.05	−1.6	15
	8h		
2189	−0.02	+1.1	4
2194**)	−0.01	−2.6	8
2352**)	+0.35	+2.2	16
	9h		
2408	−0.09	−5.0	10
2473	−0.08	−1.1	9
	10h		
2621	+0.02	+0.2	7
2643**)	−0.15	−0.2	4
2752	−0.05	−0.1	10
2794	−0.04	−0.8	8
	11h		
2837	+0.11	+0.7	9
2856	−0.12	+4.7	11
2868**)	−0.06	+5.3	11
2878	+0.10	−0.2	8

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	s	″	a
2880	+0.07	+1.1	10
2882	−0.04	+1.4	5
2883*)	+0.02	−1.5	9
2895	−0.06	+0.5	7; 3
2917	+0.21	+1.4	7
2918	−0.08	+1.1	10
2921	−0.05	−2.4	7
2926	−0.01	−0.2	11; 10
2945	−0.07	−0.1	9
2946	+0.01	−0.2	6
2950	−0.08	+0.2	8; 11
2969	−0.11	−1.6	11
	12h		
3015	−0.05	−1.4	17
3019	+0.04	+3.5	11
3024*)	−0.37	+6.0	8
3032	+0.27	−2.6	12
3040	−0.08	−3.0	12; 15
3041	+0.18	+2.1	12; 9
3124	+0.01	+0.7	10
3163	−0.02	−0.7	10
3175	+0.06	−0.9	12; 14
3181*)	−0.11	−0.4	7
3189	−0.01	+0.2	8
	13h		
3237	−0.16	−1.6	5
3301	+0.12	−3.7	11
3338	−0.03	−3.6	7; 6
3347	+0.04	−1.7	7
3405	+0.29	+0.5	9; 6
	14h		
3469	+0.14	+0.3	6
3485*)	−0.19	+1.9	9; 8

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	s	″	a
3517	+0.08	−1.6	9
3524	+0.23	−0.3	7
3534	0.00	−1.0	7
3536	−0.13	−2.4	9
3538	−0.01	+0.2	7
3556	+0.09	−0.9	8
3564*)	−0.30	+2.3	11
3596	−0.05	+0.1	8
3598	−0.10	−0.7	13
3603	+0.19	−1.2	7
	15h		
3681	+0.02	−0.5	11
3694	+0.10	0.0	12
3794	+0.12	−0.5	5
3807	−0.06	+0.3	8; 9
3809	−0.04	−3.4	11; 12
3811	−0.04	−0.1	6; 9
3823	−0.08	+1.2	10
3835*)	−0.33	+0.9	13
3859	−0.10	−0.1	7
	16h		
3895*)	−0.21	−0.5	11
3939	−0.11	−1.8	9; 8
3953*)	+0.26	−1.3	6
4030	−0.10	−0.4	11
4059*)	−0.46	−2.3	4
	17h		
4063	−0.03	+1.2	15
4081	+0.12	+0.2	9
4101	+0.02	+1.1	20
4219	−0.05	+1.2	10
4247	−0.17	−1.7	9
4255	−0.15	−0.6	7

*) № 92 m. p. +0s.0265, −0″.021 R
№ 123 +0.0086 −0.281
№ 363, 364 +0.0237 −0.051
№ 880 +0.0411 −1.169
№ 1126 −0.0016 +0.002
№ 1141 −0.0008 +0.010
**) № 1712 −0.0003, +0.207
№ 2194 m. p. −0.0058, +0.007 R
№ 2352 dupl. med.
№ 2643 m. p. −0.0146, +0.050
№ 2868 dupl. med.
*) № 2883 m. p. —, −0″.085
№ 3024 −0″.0401, +0.456
№ 3181 −0.0174, −0.007
№ 3485 m. p. −0.0217, +0.09 R
№ 3564 −0.0265, +0.027
№ 3835 −0s.0184, +0″.087
№ 3895 α med. δ bor.
№ 3953 m. p. +0″.0254, −0″.309
№ 4059 −0.0652, −1.129

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	s	"	a
4285	+0.18	−0.2	12
	18h		
4295	−0.11	−0.4	5
4305	−0.07	−1.9	5; 6
4319	+0.06	+0.9	1
4543*)	+0.04	−0.8	9
	19h		
4880	+0.17	+1.4	8

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	20h		
	s	"	a
4960	+0.01	+0.6	9; 10
4967	+0.06	+1.4	10
4968	+0.03	−4.9	11
5224	+0.04	+1.7	10
5296	−0.08	+0.2	10; 12
	21h		
5834	0.00	−1.5	3; 2

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	s	"	a
5338	+0.06	+0.9	13; 12
5502	−0.05	−1.9	10
5573	0.00	−0.5	8
	22h		
5623	+0.13	−0.4	8; 4
5738**)	−0.14	−4.2	11; 8
5740	−0.01	−1.5	14
5744**)	+0.02	−1.7	9

Cat. №	Warsch.-Romberg Δα	Δδ	Δ Ep.
	23h		
	s	"	a
5863*)	+0.21	0.0	11
5904	−0.05	−1.0	12; 10
5914*)	+0.02	−1.4	11; 10
6018	−0.01	−0.2	8; 7
6024	−0.02	−0.6	10

*) № 4543 m. p. +0s.0026, −0.028 R
**) № 5738 −0.0137, −0".308
№ 5744 +0.0126, −0.056

*) № 5863 m. p. +0s.0111, +0".002 R
№ 5914 +0.0126, −0.206

V. VERGLEICHUNG MIT YARNALL—FRISBY „CATALOGUE OF STARS.“ APPENDIX I 1884.

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	0h		
	s	"	a a
3	+0.05	−2.8	20; 17
8	+0.08	−1.3	12; 19
9	+0.05	−4.6	16; 18
11	+0.04	+0.2	15
15	+0.03	−2.2	18; 20
16	+0.04	0.0	17; 20
34	+0.05	−1.5	18; 29
42	−0.01	−3.9	25; 32
52	−0.09	−1.9	21; 24
59	−0.09	−3.3	34; 19
67	−0.08	−0.8	22; 31
74	+0.26	−3.5	23; 21
82	+0.09	−0.7	21; 23
83	+0.04	−5.9	30; 32
89	+0.18	−1.6	17
92*)	+0.69	−2.1	25; 23
102	−0.05	−2.6	25; 14
110	+0.12	−4.7	31; 29
116	+0.10	−2.6	24; 28
118	+0.07	−0.8	11; 31
123*)	+0.08	−6.7	15
125	−0.01	−3.9	32; 23
144	+0.12	−0.9	26; 23
148	+0.05	−3.4	21
164	−0.07	−2.6	16
169	−0.06	−4.5	10; 16
	1h		
186	0.00	−1.6	10; 12
189	+0.14	+0.3	22; 16
190	+0 15	−3.4	23; 24
194	−0.02	+0.1	14; 12
196	+0.44	−1.6	23; 15
204	+0.01	−2.1	21; 25
205	+c.08	−1.4	24; 30

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	s	"	a
208	+0.15	−0.7	37
214	+0.15	−2.0	11; 26
215	+0.06	−1.5	14; 16
225	+0.08	−3.7	18; 16
234	+0.03	−3.1	21; 32
236	+0.04	−4.0	22; 33
254	+0.17	−0.8	33; 36
258	+0.04	−4.0	19; 18
273	+0.12	−3.3	31; 34
275	+0.02	−1.3	27; 15
278	+0.14	−3.3	41; 47
279	+0.26	−3.0	32; 28
280	+0.34	+4.4	39; 40
286	+0.06	−1.4	23; 29
289	+0.12	−1.4	24; 30
291	−0.04	−1.5	27; 32
292	+0.10	−0.9	22; 20
293	+0.14	−0.6	40
295	−0.14	−9.2	21; 16
297	0.00	−2.4	25; 35
298	+0.02	−2.6	23; 18
311	+0.07	−0.5	27; 23
319	−0.05	−1.4	33; 35
	2h		
342	−0.05	−1.8	12; 20
346	−0.10	−3.2	16; 35
370	+0.51	−1.9	36
377	+0.17	+2.9	42
379	−0.06	−1.4	28; 28
381	+0.06	−0.7	30; 18
386	+0.27	−6.0	24; 25
416	−0.03	−4.0	26; 15
417	+0.08	+0.5	16; 38
421	+0.13	+2.5	16; 40
428	−0.03	−5.2	26; 31
434	+0.11	−0.4	30; 40

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	s	"	a a
435	+0.05	−1.8	21; 27
436	+0.04	−6.2	26; 24
447	−0.14	+1.2	19; 25
470	−0.09	+0.8	24; 28
479	+0.11	+1.8	23; 24
486	+0.03	+1.0	32; 37
503	+0.02	−5.9	19; 23
	3h		
543	0.00	−0.6	17; 11
569	+0.10	−1.7	36; 16
	4h		
692	+0.07	−0.1	19; 16
776	−0.04	−0.7	15; 29
799	+0.08	−6.1	20; 19
833	+0.07	+0.4	21; 15
	5h		
1068	+0.05	−2.2	15; 10
1100	+0.10	−2.1	20; 18
1113	−0.20	−8.0	17
1141	0.00	+0.4	41; 21
1212	−0.08	−3.2	25; 17
1216	−0.03	+1.7	16; 22
	6h		
1313	−0.04	−0.5	18; 32
1330	−0.11	+1.3	20; 34
	7h		
2087	0.00	−0.5	13; 17

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	8h		
	s	"	a
2263	−0.14	−5.9	5; 11
2293*)	−0.06	−1.1	19; 13
2352*)	+0.21	+0.8	26
2355	−0.14	−4.9	22; 15
	9h		
2499	−0.08	−4.7	23; 13
	10h		
2664	+0.05	−1.2	23; 18
2666	0.00	+1.3	27; 30
2672	−0.02	+0.6	17; 26
2677	−0.21	+0.4	25; 16
2686	−0.02	−0.5	17; 16
2712	+0.21	−1.2	18; 27
2722	+0.05	−1.7	38
2736	−0.05	+0.3	23; 29
2800	−0.06	+0.8	21; 17
	11h		
2842	−0.26	−1.0	21; 16
2879	+0.03	+1.1	25
2880	+0.20	+1.3	21; 17
2883	−0.10	−2.7	24; 20
2888	+0.07	−3.1	28; 17
2892	−0.07	+0.5	22; 21
2895	−0.22	+1.0	24; 26
2896	−0.12	+1.9	27; 31
2897	−0.03	+0.2	24; 29
2900	+0.05	+1.5	31; 28
2921	−0.04	−1.9	28; 33
2926	+0.19	−1.9	25; 23
2930	+0.04	−0.9	20; 19

*) № 92 m. p. +0s 0265, −0"021. *Romberg*. № 142

*) № 123 +0.0036, −0.281 *Romberg* № 205
№ 2293 Dupl. sq.
№ 2352 med.

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	s	″	a a
2934	+0.13	+0.4	20; 17
2935	+0.07	+2.0	19; 16
2936	−0.20	−0.4	17; 15
2953	+0.05	+1.8	27; 21
2959	−0.16	−2.3	26; 17
2991	−0.05	−1.1	27; 34
3003	+0.03	−0.7	29
3007	+0.02	−0.9	24; 21
3008	+0.03	−1.6	22; 20
3067	0.00	+0.3	22; 18
3073	−0.02	−0.6	25; 30
3077	−0.12	−1.2	14; 20
3085	−0.18	−1.7	30; 14
3086	+0.03	+0.1	22; 29
3097	−0.24	+2.7	29; 33
3099	+0.01	+1.8	26; 28
3116	−0.02	0.0	22; 20
3123	+0.29	−2.8	22; 32
3124	0.00	+0.5	13; 15
3126	−0.05	−0.3	24; 27
3136	+0.07	−0.2	26; 16
3139	+0.03	−1.0	23; 33
3140	+0.02	−2.2	18; 31
3181*)	−0.36	−1.5	21; 19
3188	−0.12	+1.7	19; 22
3201	−0.12	−0.4	15; 7
3203	−0.02	+1.2	10; 13
3213	+0.02	−0.2	13; 28
	13h		
3237	−0.15	−1.4	15; 17
3245	+0.06	+0.4	17; 19
3249	−0.11	−3.6	23; 21
3252	−0.10	−1.3	24; 22
3255	−0.14	−4.8	23; 19
3260	−0.03	+2.1	15; 16
3262	−0.03	−1.2	25; 31
3267	−0.12	−1.5	30; 23
3268	−0.08	−0.7	25; 16
3274	−0.02	+0.6	21; 18
3288	−0.05	−0.2	24; 27
3289	+0.08	−0.8	21; 17
3309	−0.14	0.0	18; 24
3315	+0.04	+2.4	17; 19
3332	−0.04	−0.6	22; 29
3334	−0.02	+0.9	23; 27
3340	+0.14	+0.9	31; 35
3341	+0.05	−1.1	18; 19
3358	−0.10	−1.4	21; 20
3370	+0.01	−1.9	8; 12
	14h		
3466	−0.02	−1.1	26; 28
3500	−0.14	+2.0	24; 27

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	s	″	a
3503	−0.02	−1.2	26; 25
3505	−0.13	−0.7	10; 19
3506	+0.02	−1.1	26; 31
3508*)	−0.88	−1.0	20; 19
3514	−0.03	—	19
3533	+0.01	+1.4	31; 15
3539	+0.06	+1.4	29; 22
3543	−0.19	+1.7	26; 29
3544*)	−0.31	−1.4	25; 28
3559	+0.03	+0.8	25
3562	−0.06	+3.0	26; 28
3565	−0.06	−2.7	25
3578	−0.04	−0.2	28; 30
3589	+0.10	+1.3	27; 30
3603	−0.03	−1.4	26; 29
3606	+0.05	0.0	21; 29
3643	+0.11	+0.8	27; 12
	15h		
3661	+0.05	−0.1	22; 13
3664	−0.15	−0.3	30; 26
3665	−0.29	−1.0	27
3673	−0.07	−1.4	26
3674	−0.05	−2.4	19; 18
3681	−0.02	+0.4	21; 16
3776	−0.11	−1.7	26; 31
3809	−0.13	−5.1	13; 25
3811	−0.14	+0.2	25; 30
3817	−0.16	−2.3	22; 28
3827	+0.13	−2.1	32; 34
3858	−0.11	−2.3	21; 25
	16h		
3871	+0.06	+0.7	23; 27
3872	−0.03	−1.8	22; 21
3971	+0.11	−1.3	21; 18
3996	+0.02	+0.3	21; 15
3997	−0.01	−1.9	19
4004	+0.15	+1.6	21; 28
4011	+0.04	−2.0	13; 19
4016	+0.26	+2.6	21; 18
4019	+0.06	+0.6	22; 27
4027	−0.04	+0.1	26; 15
4030	−0.12	+1.8	24; 30
4032	+0.05	−3.2	19; 17
4039	−0.03	−2.5	23; 24
4046	+0.07	+1.6	20; 17
4051	−0.02	+0.7	22; 19
4053	−0.04	+1.5	22; 16
4059*)	−0.97	−2.6	13; 4
	17h		
4079	+0.01	+1.0	18

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep.
	s	″	a a
4097	+0.08	−0.9	22; 21
4101	+0.13	−0.2	32; 25
4102	+0.04	−3.2	22; 25
4103	−0.06	−0.6	14; 24
4110	−0.03	−1.3	23; 29
4120	−0.08	+0.7	29; 15
4128	−0.09	+1.0	20; 12
4132	−0.10	+1.1	26; 36
	18h		
4351	−0.20	−1.6	18
4474	+0.05	+2.8	24; 8
4484	+0.14	+1.2	20; 18
4489	−0.03	−0.8	23; 19
4578	+0.16	+0.4	43; 19
	19h		
4679	+0.08	+2.5	10; 23
4694	+0.06	−0.1	22; 14
4732	+0.11	+3.2	16; 25
	20h		
4960	+0.04	+0.7	20; 19
5137	+0.07	−0.4	8; 10
5144	−0.07	−5.5	14; 18
5173	+0.08	−0.7	16; 21
5224	+0.04	+1.9	24; 20
5296	+0.01	+1.7	17; 19
	21h		
5367	−0.06	−2.9	7
5379	−0.02	−1.8	13; 17
5448	−0.01	−1.4	9; 22
5484	−0.01	−3.5	14; 27
5507	−0.08	+0.3	11; 13
5513	+0.22	−0.3	25; 38
5522	−0.01	−1.9	13; 14
5523	−0.09	−5.6	24; 18
5526	+0.07	−0.7	18
5542	+0.07	−3.8	19; 18
5550	+0.03	+0.2	36; 14
5572	+0.15	+1.9	9; 8
5573	+0.03	−1.0	39; 14
	22h		
5608	−0.06	−1.4	14; 18
5614	−0.07	−2.3	33
5626	−0.01	−0.3	16; 12
5627	−0.06	+0.7	16; 32
5638	+0.11	+1.3	29; 34
5640	+0.08	−1.8	30; 19

Cat. №	Warsch.-Yarnall Δα	Δδ	Δ Ep
	s	″	a a
5651	+0.17	−3.6	16; 27
5656	+0.20	−1.3	18
5688	−0.10	−1.4	38; 7
5701	−0.10	−5.3	26; 17
5738*)	−0.16	−6.7	18; 13
5740	−0.01	−1.9	20
5759	−0.01	−0.6	27; 29
5764	0.00	−0.1	22; 20
5765	+0.09	−0.2	22; 23
5773	−0.07	+0.1	22; 19
5778	+0.16	−1.1	27; 30
5782	−0.03	+1.8	26
5786	0.00	−4.7	21; 14
5794*)	+0.66	−3.8	21; 16
5795	−0.02	−1.5	15; 20
5799	0.00	−2.9	21; 20
5801	−0.04	+0.1	28; 18
5802	−0.18	−7.5	24; 20
5812	−0.01	−4.3	22; 14
	23h		
5813	+0.23	+0.5	21
5817	+0.04	−2.0	28; 30
5829	+0.07	−3.3	25; 23
5836	−0.09	−3.6	35; 33
5838	−0.08	−1.0	24; 31
5839	+0.09	−4.6	29; 28
5842	−0.06	−1.4	20
5843	−0.08	−0.8	18; 20
5863*)	+0.87	−0.4	29; 22
5864	+0.11	−4.3	23; 22
5866	+0.16	−2.4	23; 19
5867	+0.53	−2.8	28; 25
5870	−0.11	−1.1	27; 28
5871	+0.15	−2.2	12; 11
5873	−0.12	−3.2	13; 15
5903	+0.05	−1.8	12; 10
5904*)	+0.14	−4.6	23; 24
5913	+0.17	−1.6	18; 29
5923	+0.13	−0.3	31; 20
5963	+0.08	−5.1	23; 22
5966	+0.08	−1.3	20
5971	+0.22	+0.5	30; 18
5972	+0.05	−0.4	24; 20
5973	+0.01	−1.3	19; 20
5982	+0.16	−4.1	26; 25
6010	−0.04	−1.9	37; 36
6019	−0.27	−4.5	21
6023	+0.11	−2.2	29; 18
6024	+0.10	−1.8	17; 30
6027	+0.03	0.0	20; 18
6039	−0.11	+3.2	36; 34

*) № 3181 m. p. −0ˢ.0172, −0″.007 *Romberg* № 2912
*) № 3508 −0.0431, −0″.101 *Bauschinger* l. c. № 41
№ 3544 −0.0170 „ „ № 42
*) № 4059 −0 0648, −1″.117 *Bauschinger* № 53
*) № 5738 −0.0137, −0″308 *Romberg.* № 5261, 5262 *Yarnall* № 10305, 10306 med.

*) № 5794 m. p. +0ˢ.031; +0″.28 *Yarnall* pg. 301 № 10413 *Wahrscheinlich:* −0″.28
*) № 5863 +0ˢ.0111, +0″002 *Romberg.* № 5420
*) № 5904 +0.014, −0.26 „ № 5487 genähert

VI. VERGLEICHUNG MIT „THE SECOND WASHINGTON CATALOGUE OF STARS J. R. EASTMAN“.

Cat. №	Warsch.-Eastman Δα	Δδ	Δ Ep.
	0h		
	s	″	a a
8	−0.06	−1.8	8; 6
11	+0.01	0.0	8; 5
12	−0.13	−0.9	−5
13	−0.02	−2.8	+9
26	+0.02	−1.7	6
28	+0.05	−1.7	0
35	−0.02	−2.3	−1
42	−0.03	−2.8	+10
89	−0.05	−1.2	−2
120	−0.12	+2.7	+3
123*)	+0.01	−1.5	4
139	−0.04	−0.6	1
	2h		
347	−0.10	−4.3	−10
	3h		
569	−0.07	−0.1	+13
604	−0.08	0.0	7
651	0.00	−0.6	5
	4h		
776	−0.05	−0.8	8
805	−0.10	−2.4	−1
	5h		
1067	+0.11	−7.1	7
1092	+0.06	+0.3	2
1098	+0.05	+0.7	2
1107*)	−0.02	+0.4	2
1126	+0.05	+3.0	4; 3
1141	+0.01	+0.2	11; 12
	6h		
1409	−0.08	−0.9	−2

Cat. №	Warsch.-Eastman Δα	Δδ	Δ Ep.
	8h		
	s	″	a
2189	+0.07	−0.1	+7
2194	+0.01	−3.1	4
2319	−0.03	+0.9	12
	9h		
2569	−0.02	+1.1	−1
	10h		
2677	−0.07	+1.0	+8
2697	−0.15	−1.9	11
2717	−0.10	+2.0	14
2728	−0.11	−0.7	14
	11h		
2842	−0.10	−1.4	2
2863	0.00	−1.6	16 13
2953	−0.03	+0.2	14
2991	−0.04	−1.3	4
	12h		
3084	−0.09	−0.1	5
3085	−0.07	−0.4	6
3086	−0.06	+1.2	−1; −2
3099	−0.01	+1.0	+10
3109	−0.01	−1.5	−1; 0
3116	−0.06	+0.3	+8
3120	−0.13	−2.3	9
3136	+0.01	−1.2	11
	13h		
3237	−0.16	−1.6	10; 4
3309	−0.08	+0.1	7; 6
3325	0.00	+1.6	16
3387	−0.07	+1.5	5

Cat. №	Warsch.-Eastman Δα	Δδ	Δ Ep.
	14h		
	s	″	a
3548	+0.12	−4.3	17
3564	−0.09	+1.3	2
	16h		
4039	−0.03	− 2.7	8; 9
	18h		
4501	+0.01	−2.8	15; 14
	19h		
4715	+0.01	+1.8	−4
4726	+0.11	+1.5	−2
4737	−0.03	−1.0	−4
4739	−0.24	+1.6	−6
4751	+0.01	−0.2	−4
4754	+0.02	−1.4	+2
4769	−0.13	0.0	−1; −4
4772	+0.12	−0.1	+17; 10
4781	−0.03	+1.3	−6; −12
4799	−0.05	+0.8	−2
4822	0.00	−2.2	−1
4832	−0.06	−1.4	+7
4836	−0.05	+1.8	−6
4841	−0.03	−0.1	−3; −1
4844	−0.01	+0.6	−1; −3
4850	−0.12	−3.2	−2; −8
4870	−0.03	−0.1	−2
4887	−0.06	−3.8	−3; −6
4892	+0.07	+0.5	−6; −5
4893	−0.01	−0.3	−5
4894	−0.01	−1.0	−3
4897	−0.04	−1.3	−3; −5
4908	−0.10	−0.9	−6
4912	−0.11	+1.1	−3
4918	−0.09	−1.5	−6
4928	−0.34	+5.0	−13

Cat. №	Warsch.-Eastman Δα	Δδ	Δ Ep.
	20h		
	s	″	a a
4933	+0.03	+0.3	−7; −6
	21h		
5572	+0.10	+0.3	−2; −4
	22h		
5627	−0.13	−0.3	4
5651	+0.06	−4.4	9
5701	−0.01	−2.8	13
5738	−0.02	−1.8	3; 0
5740	−0.10	−1.2	6
5744	−0.02	−1.8	−2
	23h		
5839	0.00	0.0	5; 3
5863*)	+0.20	−0.8	17
5904*)	+0.07	−2.0	12; 10
5914	−0.01	0.0	1; 0
5923	+0.03	−0.6	4
5937	−0.04	−1.5	4
5952	+0.03	+1.6	−5
5957	+0.09	−0.2	+3
5963	+0.07	+0.7	−1; 0
5966	−0.01	+0.3	+10
5967	+0.06	+0.3	−3
5968	+0.06	−4.4	+15
5971	+0.03	+2.1	4
5973	0.00	+0.2	9; 10
5986	−0.07	−3.0	5
5990	+0.31	−0.2	21
5993	−0.03	+0.1	−3; −4
6002	+0.09	−2.0	+9; 8
6003	0 00	−0.7	9; 10
6019	+0.06	+1.2	−3
6023	+0.01	−0.9	+8
6024	+0.03	+1.0	14
6039	−0.03	−0.1	15

*) № 123 m. p. +0s.0036, −0.″281 *Romberg* № 205
№ 1107 +2′ *Warschau.*

*) № 5863 m. p. +0s.0111; +″.002 *Romberg* № 5420
№ 5904 +0.014, −0.26 „ № 5487 genähert

BERICHTIGUNGEN DES CATALOGS.

Seite	№	
1	45	*AR.* *st.* 12^m *l.* 13^m
2	66	*B.D.* *st.* 72 *l.* 71
3	101	*Gr.* *st.* 8.9 *l.* 9.8
6	285	*B.D.* *st.* 308 *l.* 307
7	308	*B.D.* *st.* 351 *l.* 353
9	406	*B.D.* *st.* 403 *l.* 422
10	471	*B.D.* *st.* -6^0 *l.* -7^0
11	515	*Décl.* *st.* 6″.2 *l.* 6″.6
12	560	*Décl.* *st.* 27″.7 *l.* 27″.5
13	616	*AR.* *st.* 3^h38^m $18^s.34$ *Pr.* $2^s.9526$; *Décl.* $-6^016'$ 19″.3 *Pr.* 11″.624, *BD.* 738 *l.* 3^s 38 8.34 *Pr.* 2.9495 -6^026 19.2 11″.635 *B.D.* 736
13	636	*AR* *st.* $43^s.96$ *l.* $43^s.90$
15	730	*B.D.* *st.* 808 *l.* 818
15	734	*AR.* *Praec.* *st.* $2^s.9538$ *l.* $2^s.9466$
16	764	*B.D.* *st.* 838 *l.* 837
16	766	*B.D.* *st.* 839 *l.* 838
17	814	*Décl.* *st.* 37″.1 *l.* 87″.7
21	1045	*B.D.* *st.* 1201 *l.* 1202
22	1057	*B.D.* *st.* 1113 *l.* 1103
23	1107	*Décl.* *st.* 58′ *l.* 56′
24	1185	*AR.* *Ep.* *fehlt* *l.* 86.3
26	1253	*AR.* *Ep.* *st.* 86.1 *l.* 89.1
26	1254	*B.D* *st.* 1245 *l.* 1265
26	1260	*B.D.* *st.* 1248 *l.* 1268
26	1286	*B.D.* *st.* 1302 *l.* 1301
28	1371	*Décl.* *st.* 37′ *l.* 38′
29	1419	*Ep.* *st.* 89.2 *l*· 96.2
30	1485	*B.D.* *st.* 1334 *l.* 1699
31	1503	*AR.* *st.* $15^s.59$ *l.* $15^s.61$
31	1541	*B.D.* *st.* 1733 *l.* 1734
33	1613	*AR.* *Var.* *saec.* *st.* 000.06 *l.* 0.0005
33	1611—1650	*AR.* *Var.* *saec.* *st.* 000. *l.* 0.00
34	1671	*B.D.* *st.* -6^0 *l.* -5^0
35	1718	*B.D.* *st.* 1943 *l.* 1963
36	1753	*Décl.* *Var.* *saec.* *st.* 0″.419 *l.* 0″.414
36	1787	*Décl.* *st.* 80″.8 *l.* 80″.0
41	2016	*st.* 7^h49^m $18^s.16$ *Pr.* $3^s.0166$ *Var.* $-^s0.0028$; $-2^041'$ 15″.0 *Var.* −0″.387 *B.D.* -2^0 *l.* 7^h49^m $18^s.26$ *Pr.* 2^s9958 *Var.* $-0^s.0025$; $-3^041'$ 18″.4 *Var.* −0″.384 *B.D.* -3^0
42	2074	*B.D.* *st.* 2407 *l.* 2427
43	2102	*Gr.* *st.* 9 *l* 8.9
43	2111—2150	*AR.* *Var.* *saec.* *st.* 000. *l.* 0.00
44	2155	*B.D.* *st.* 2354 *l.* 2554
44	2160	*B.D.* *st.* 2356 *l.* 2556
44	2182	*Décl.* *st.* 21″.0 *l.* 20″.0
45	2235	*Décl.* *st.* 11″.1 *l.* 10″.8
46	2300	*Ep.* *st.* 85.6 *l.* 82.6
47	2334	*AR.* *st.* $40^s.53$ *l.* $40^s.55$
48	2357	*B.D.* *st.* 2744 *l.* 2745
48	2384	*AR.* *st.* $45^s.55$ *l.* $44^s.88$
49	2402	*Décl.* *st.* 57″.7 *l.* 57″.0
49	2409	*Décl.* *st.* 35″.3 *l.* 33″.5
51	2528	*AR.* *st.* $33^s.69$ *l.* $33^s.61$

Seite	№	
55	2701	*AR.* *st.* $45^s.05$ *l.* $45^s.10$
55	2723	*B.D.* *st.* 3017 *l.* 3107
55	2734	*B.D.* *fehlt* *l.* -4^0 2927
55	2747	*B.D.* *st.* -2^0 *l.* -3^0
56	2776	*B.D.* *st.* 4972 *l.* 2972
58	2890	*B.D.* *st.* 3071 *l.* 3091
60	2986	*AR.* *st.* 56^m *l.* 55^m
62	3097	*B.D.* *st.* 3287 *l.* 3587
63	3136	*B.D.* *st.* 3625 *l.* 3626
64	3197	*AR.* *st.* $29^s.28$ *l.* $29^s.26$
67	3302	*AR.* *st.* $39^s.82$, *Décl.* *st.* 52″.3 *l.* 39^s80, 52″.7
68	3396	*B.D.* *st.* 3774 *l.* 3775
69	3445	*B.D.* *st.* 3803 *l.* 3802
74	3665	*Décl.* *st.* 3″.8 *l.* 4″.0
74	3683	*Décl.* *st.* 25″.1 *l.* 24″.7
76	3761	*AR.* *st.* $12^s.78$ *l.* $17^s.78$
77	3807	*BD.* *st.* 4151 *l.* 4054
77	3841	*Décl.* *st.* 22″.2 *l.* 23″.0
78	3876	*AR.* *Ep.* *st.* 85.5 *l.* 83.5
78	3887	*BD.* *st.* 4390 *l.* 4391
78	3893	*Décl.* *st.* 6″.9 *l.* 6″.7
81	4019	*AR.* *st.* $8^s.19$ *l.* $8^s.21$
83	4107	*Décl.* *st.* 9″.2 *l.* 3″2
84	4185	*AR.* *st.* $20^s.06$ *l.* $20^s.12$
85	4240	*AR.* *st* $36^s.43$ *l.* $36^s.51$
86	4261	*AR.* *st.* $50^s.22$ *l.* $50^s.12$
86	4286	*Décl.* *st.* 11″.9 *l.* 11″.7
87	4309	*AR.* *st.* $30^s.75$ *l.* $30^s.73$
88	4384	*AR.* *st.* $7^s.40$ *l.* $7^s.49$
89	4433	*Décl.* *Ep.* *st.* 87.6 *l.* 77.6
91	4537	*Décl.* *st.* 4″.5; *Zahl d. B.* 3 *l.* 4″.2 *Zahl* 4
91	4543	*Décl.* *Ep.* *st.* 88.0 *l.* 88.8
92	4555	*Décl.* *st.* 26″.0 *l.* 26″.6
92	4577	*AR.* *Zahl d. B.* *st.* 9; *Ep.* 90.6 *l.* *Zahl* 8, *Ep.* 90.0
93	4618	*AR.* *Praec* *st.* $3^s.2289$ *l.* $3^s.2259$
93	4623	*AR.* *st.* $25^s.67$ *l.* $25^s.61$
95	4749	*B.D.* *st.* 4971 *l.* 4991
96	4777	*AR.* *st.* $1^s.25$; *Décl.* *st.* 45″.1 *l.* $1^s.22$, 45″.4
96	4798	*B.D.* *st.* -1^0 *l.* -2^0
97	4815	*Décl.* *Ep.* *fehlt.* *l.* 84.1
99	4948	*AR.* *Zahl d.B.* *st.* 7 *l.* 17
103	5139	*Décl.* *Ep.* *fehlt* *l.* 91.2
106	5278	*Décl.* *st.* 59″.5 *l.* 59″.7
109	5435	*Décl.* *st.* 3″.5 *l.* 4″.0
110	5454	*Décl.* *Ep* *st.* 93.9 *l.* 84.2
111	5510	*AR.* *Zahl d. B.* *st.* 3 *l.* 4
111	5511	*Décl.* *Zahl d. B.* *st.* 6 *l.* 5
113	5617	*BD.* *st.* 3940 *l.* 5940
117	5849	*BD.* *st.* 5178 *l.* 6178
119	5926	*AR.* *st.* $19^s.78$ *l.* $19^s.81$
120	5951	*Gr.* *st.* 8.9 *l.* 9.8
120	5952	*Gr.* *st.* 9.8 *l.* 8.9
120	5954	*Ep.* *st.* 92.3 *l.* 93.2
120	5971	*AR.* *st.* $46^s.42$ *l.* $46^s.47$
121	6039	*B.D.* *st.* 6358 *l.* 6357

Anmerkung. № 1089 stimmt nicht mit *B.D.* -6^0 1231 überein; Diff. $3^s.4$. Der Stern ist aber reel. Nach der Arbeitsliste ist die Position der Sterne № 1087 und 1089 des Warsch. Cat. für *1800* nach Schmidt:

№ 1087 *AR.* 5^h 25^m 11^s, *Décl.* -6^0 9′.4
1089 25 13 −6 8.8

BERICHTIGUNGEN DES REGISTERS DER EINZELBEOBACHTUNGEN.

Seite	*№ des Catalogs*	
123	2	*st.* 19913 *l.* 19912
123	19	*st.* 9314 *l.* 9304
123	96	*st.* 3469 *l.* 3470
123	124	*fehlt* 7357
124	213	*st.* 9348 *l.* 9338
124	261	*st.* 3494 *l.* 3495
125	275	*st.* 7294 *l.* 7292
125	318	*st.* 2430 *l.* 2436
125	333	*st.* 1361 *l.* 1351
125	339	*st.* 22180 *l.* 22182
125	392	*st.* 17352 *l.* 17532
126	547	*st.* 14160 *l.* 14161
127	621	*st.* 8523 *l.* 9523
128	№ *d. Cat.*	*st.* 749 *l.* 740
128	824	*st.* 6222 *l.* 6322
129	841	*st.* 6158 *l.* 6258
129	876	*st.* 18911 *l.* 18914
130	1040	*st.* 12028 *l.* 11956
131	1184	*st.* 16816 *l.* 16216
131	1212	*fehlt* 8579
131	1234	*st.* 12090 *l.* 12092
132	1256	*st.* 11044 *l.* 11944
132	1265	*st.* 12060 *l.* 12160
132	1292	*st* 6476 *l.* 6473
132	1385	*st.* 1399 *l.* 1396
132	1387	*st.* 9854 *l.* 9884
136	1870	*st.* 3031 *l.* 3931
136	1879	*st.* 8554 *l.* 7752
137	2043	*st.* 9852 *l.* 3852
140	2402	*st.* 2649 *l.* 2640
140	2501	*st.* 5489 *l.* 5490
141	2584	*st.* 3478 *l.* 1478
142	2695	*st.* 8799 *l.* 8790
142	2701	13322 *zu streichen*
142	2736	*st.* 10423 *l.* 10428
142	2789	*st.* 15473 *l.* 15474
142	2791	*st.* 1512 *l.* 1513
144	3028	*st.* 1614 *l.* 1644
145	3136	*st.* 4570 *l.* 1570
145	3128	*st.* 8088 *l* 8023
145	3136	*st.* 19205 *l.* 19202
146	3220	*fehlt* 16517, 17961
146	3261	*st.* 20832 *l.* 30852
146	3282	*fehlt* 21558
146	3313	*st.* 12389 *l.* 13389
147	3353	*st.* 7948 *l.* 7945
147	3405	*st* 14628 *l.* 14623
148	3524	*st.* 15643 *l.* 15613
148	3528	*st.* 9187 *l.* 9197
148	3532	*st.* 10957 *l.* 10597
149	3635	*st.* 10722 *l.* 10721
149	3696	*st.* 14708 *l.* 14707
150	3762	*st.* 1732 *l* 1738
150	3837	*st.* 6748 *l.* 6745
151	3872	*st.* 6802 *l.* 6803
151	3918	*st.* 21626 *l.* 21625
151	3944	*st.* 894 *l.* 892
152	4065	*st.* 809 *l.* 807
152	4105	*st.* 2396 *l.* 2896
154	4252	*st.* 10857 *l.* 10851
154	4298	*st.* 2643 *l.* 2943
154	4301	*st.* 5117 *l.* 5617
154	4304	*st.* 1890 *l.* 6890
155	4401	*st.* 20972 *l.* 20977
155	4440	*st.* 16868 *l.* 16878
157	4694	*st.* 3030 *l.* 3039
158	4867	*st.* 4002 *l.* 7002
158	№ *d. Cat.*	*st.* 4368 *l.* 4868
159	4933	*st.* 3023 *l.* 3024
159	4952	*st.* 21856 *l.* 21855
160	5016	*st.* 16037 *l.* 17037
160	5045	*st.* 111354 *l.* 11354
164	5546	*Unten st.* 15019 $\delta + 1^0$ *l.* 15019 $\delta - 1^0$
166	5809	*st.* 10017 *l.* 16017
166	5821	*st.* 29632 *l.* 20632



